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Service Manual

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PHILIPS

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

Notes:

- Figures can deviate due to the different set executions.
- Specifications are indicative (subject to change).

1.1 Technical Specifications

1.1.1 Vision

Display type	:	LCD
Screen size	:	32” (82 cm), 16:9
	:	37” (94 cm), 16:9
	:	42” (107 cm), 16:9
Resolution (HxV pixels)	:	32”: 1366(*3)x768
	:	37”: 1920(*3)x1080
	:	42”: 1366(*3)x768
Light output (cd/m^2)	:	550
Viewing angle (HxV degrees)	:	176
Tuning system	:	PLL
Colour systems	:	PAL B/G, D/K, I
	:	SECAM B/G, D/K, L/L’
Supported computer formats (60 Hz)	:	640x480
	:	800x600
	:	1024x768
Supported video formats	:	640x480i - 1fH
	:	720x576i - 1fH
	:	640x480p - 2fH
	:	720x576p - 2fH
	:	1920x1080i - 2fH
	:	1280x720p - 3fH
AV (playback only)	:	NTSC, PAL, SECAM
Tuner bands	:	UHF, VHF, S, Hyper

1.1.2 Sound

Sound systems	:	AV stereo,
	:	2CS B/G, D/K
	:	NIC. B/G, D/K, I, L/L’
Maximum power (W_{RMS})	:	2 x 15
	:	2 x 12 + 1 x 24 (42PF9831/69)

1.1.3 Multimedia

Supported digital media (only in 37” and 42”)	:	Compact Flash I & II
	:	Memory Stick
	:	Microdrive
	:	SD Card
	:	Multi Media Card
	:	Smart Media Card
Supported file formats	:	JPEG
	:	MP3
	:	Slideshow (.alb)
	:	DivX 3.11 and 5 (only 32PF9731D/10, 37” and 42”)
	:	MPEG1, 2
	:	MPEG4 (only 32PF9731D/10, 37” and 42”)
	:	XviD (only 32PF9731D/10, 37” and 42”)
USB input	:	USB2.0
Multimedia connections	:	7-in-1 Memory Card Reader (only 37” and 42”)
Multimedia connections (37PF9731D/10 and 42PF9731D/10)	:	Ethernet-UTP5
	:	UPnP
	:	WiFi (opt. ethernet-bridge)

1.1.4 Miscellaneous

Power supply:		
- Mains voltage (V_{AC})	:	220 - 240
- Mains frequency (Hz)	:	50 / 60
Ambient conditions:		
- Temperature range (°C)	:	+5 to +40
- Maximum humidity	:	90% R.H.
Power consumption (values are indicative)		
- Normal operation (W)	:	32”: 163
	:	37”: 185
	:	42”: 248
- Stand-by (W)	:	< 2
Dimensions (WxHxD cm)		
- 32PF9531/10 and 32PF9631D/10	:	935x516x120
- 32PF9731D/10	:	869x625x114
- 37PF9731/69 and 37PF9731D/10	:	991x707x114
- 42PF9731D/10	:	1095x764x114
- 42PF9831/69	:	1279x872x114
Weight (kg)		
- 32PF9531/10 and 32PF9631D/10	:	18.7
- 32PF9731D/10	:	20.4
- 37PF9731/69 and 37PF9731D/10	:	26
- 42PF9731D/10	:	35
- 42PF9831/69	:	38

1.2 Connections

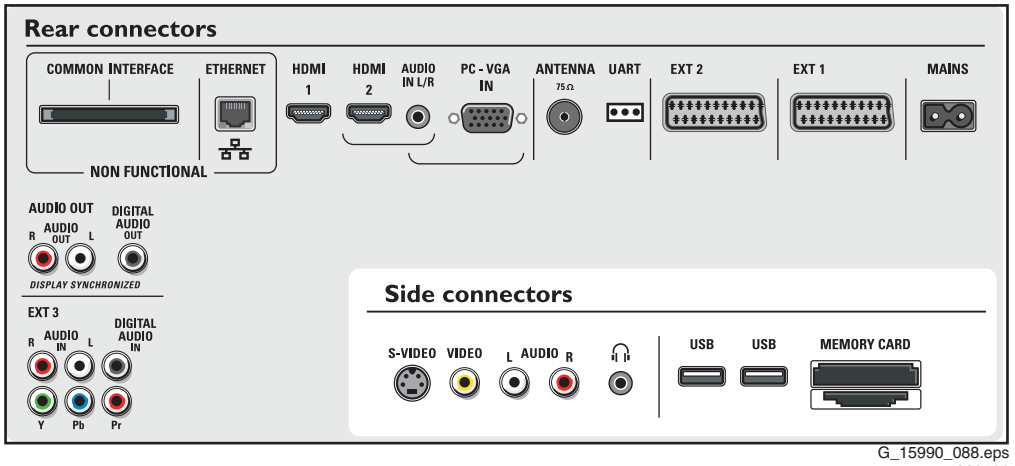

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Figure 1-1 Connection overview 37PF9731/69 & 42PF9831/69

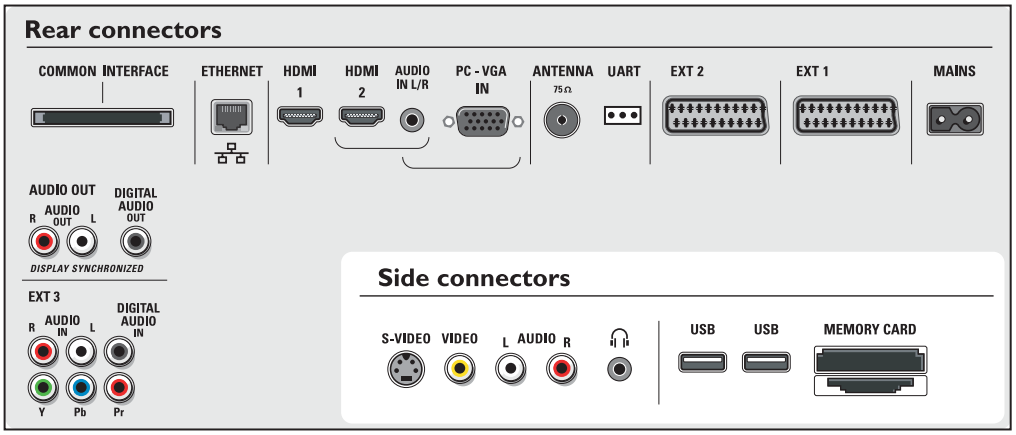

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Figure 1-2 Connection overview 32PF9731D/10 & 37PF9731D/10 & 42PF9731D/10 & 42PF9831D/10

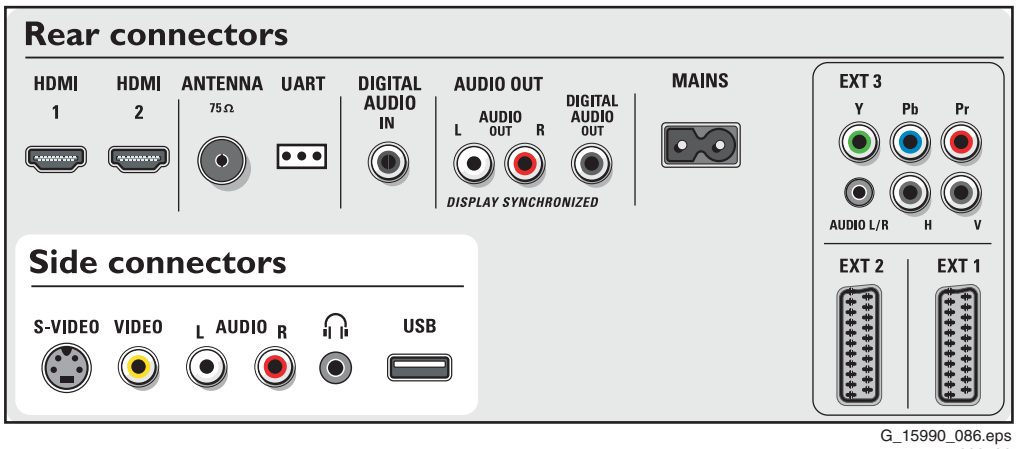

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Figure 1-3 Connection overview 32PF9531/10

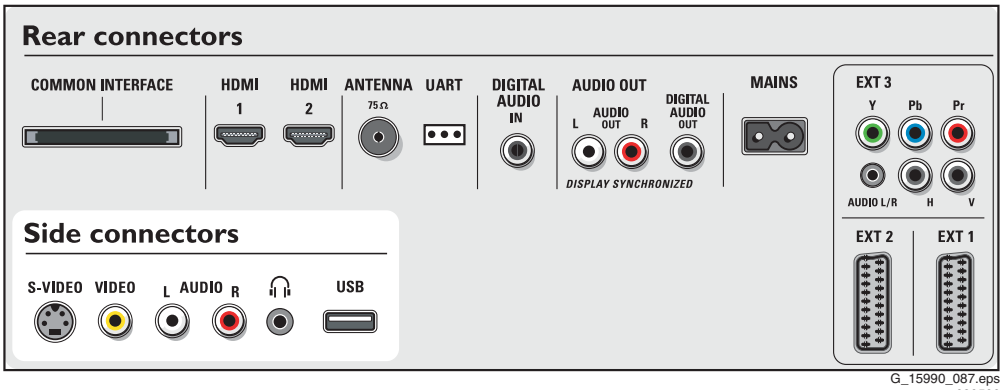

Figure 1-4 Connection overview 32PF9631D/10

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, Ye= Yellow.

1.2.1 Side Connections

Headphone (Output)

Bk - Headphone	32 - 600 ohm / 10 mW	

Cinch: Video CVBS - In, Audio - In

Rd - Audio R	0.5 V_{RMS} / 10 kohm	
Wh - Audio L	0.5 V_{RMS} / 10 kohm	
Ye - Video CVBS	1 V_{PP} / 75 ohm	

SVHS (Hosiden): Video Y/C - In

1 - Ground Y	Gnd	
2 - Ground C	Gnd	
3 - Video Y	1 V_{PP} / 75 ohm	
4 - Video C	0.3 V_{PP}P / 75 ohm	

USB2.0

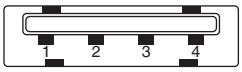

Figure 1-5 USB (type A)

1 - +5V		
2 - Data (-)		
3 - Data (+)		
4 - Ground	Gnd	

1.2.2 Rear Connections

RJ45: Ethernet (if present)

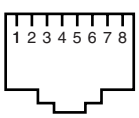

Figure 1-6 Ethernet connector

1 - TD+	Transmit signal	
2 - TD-	Transmit signal	
3 - RD+	Receive signal	
4 - n.c.		
5 - n.c.		
6 - RD-	Receive signal	
7 - n.c.		
8 - n.c.		

HDMI 1 & 2: Digital Video, Digital Audio - In

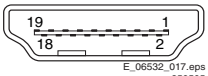

Figure 1-7 HDMI (type A) connector

1 - D2+	Data channel	
2 - Shield	Gnd	
3 - D2-	Data channel	
4 - D1+	Data channel	
5 - Shield	Gnd	
6 - D1-	Data channel	
7 - D0+	Data channel	
8 - Shield	Gnd	
9 - D0-	Data channel	
10 - CLK+	Data channel	
11 - Shield	Gnd	
12 - CLK-	Data channel	
13 - n.c.		
14 - n.c.		
15 - DDC_SCL	DDC clock	
16 - DDC_SDA	DDC data	
17 - Ground	Gnd	
18 - +5V		
19 - HPD	Hot Plug Detect	
20 - Ground	Gnd	

Cinch: Audio - In

Rd - Audio - R	0.5 V_{RMS} / 10 kohm	
Wh - Audio - L	0.5 V_{RMS} / 10 kohm	

VGA: Video RGB - In

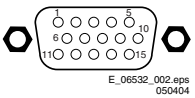

Figure 1-8 VGA Connector

1 - Video Red	0.7 V_{PP} / 75 ohm	
2 - Video Green	0.7 V_{PP} / 75 ohm	
3 - Video Blue	0.7 V_{PP} / 75 ohm	
4 - n.c.		
5 - Ground	Gnd	
6 - Ground Red	Gnd	
7 - Ground Green	Gnd	
8 - Ground Blue	Gnd	

9	- +5V_{DC}	+5 V	
10	- Ground Sync	Gnd	
11	- n.c.		
12	- DDC_SDA	DDC data	
13	- H-sync	0 - 5 V	
14	- V-sync	0 - 5 V	
15	- DDC_SCL	DDC clock	

Aerial - In

	- IEC-type	Coax, 75 ohm

EXT2: Video RGB/YC - In, CVBS - In/Out, Audio - In/Out

1	- Audio R	0.5 V_{RMS} / 1 kohm
2	- Audio R	0.5 V_{RMS} / 10 kohm
3	- Audio L	0.5 V_{RMS} / 1 kohm
4	- Ground Audio	Gnd
5	- Ground Blue	Gnd
6	- Audio L	0.5 V_{RMS} / 10 kohm
7	- Video Blue/C-out	0.7 V_{PP} / 75 ohm
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3
9	- Ground Green	Gnd
10	- Easylink P50	0 - 5 V / 4.7 kohm
11	- Video Green/Y	0.7 V_{PP} / 75 ohm
12	- n.c.	
13	- Ground Red	Gnd
14	- Ground P50	Gnd
15	- Video Red/C	0.7 V_{PP} / 75 ohm
16	- Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm
17	- Ground Video	Gnd
18	- Ground FBL	Gnd
19	- Video CVBS	1 V_{PP} / 75 ohm
20	- Video CVBS/Y	1 V_{PP} / 75 ohm
21	- Shield	Gnd

EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out

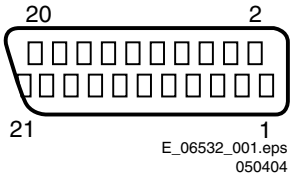

Figure 1-9 SCART connector

1	- Audio R	0.5 V_{RMS} / 1 kohm
2	- Audio R	0.5 V_{RMS} / 10 kohm
3	- Audio L	0.5 V_{RMS} / 1 kohm
4	- Ground Audio	Gnd
5	- Ground Blue	Gnd
6	- Audio L	0.5 V_{RMS} / 10 kohm
7	- Video Blue	0.7 V_{PP} / 75 ohm
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3
9	- Ground Green	Gnd
10	- Easylink P50	0 - 5 V / 4.7 kohm
11	- Video Green	0.7 V_{PP} / 75 ohm
12	- n.c.	
13	- Ground Red	Gnd
14	- Ground P50	Gnd
15	- Video Red	0.7 V_{PP} / 75 ohm
16	- Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm
17	- Ground Video	Gnd
18	- Ground FBL	Gnd
19	- Video CVBS	1 V_{PP} / 75 ohm
20	- Video CVBS	1 V_{PP} / 75 ohm
21	- Shield	Gnd

Cinch: Audio - Out

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm

Digital Audio Out: Cinch: S/PDIF - Out

Bk	- Coaxial	0.4 - 0.6V_{PP} / 75 ohm

EXT3: Cinch: Audio - In

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm

EXT3: Digital Audio In: Cinch: S/PDIF - In

Bk	- Coaxial	0.2 - 0.6V_{PP} / 75 ohm

EXT3: Cinch: Video YPbPr - In

Gn	- Video Y	1 V_{PP} / 75 ohm
Bu	- Video Pb	0.7 V_{PP} / 75 ohm
Rd	- Video Pr	0.7 V_{PP} / 75 ohm

Service Connector (UART)

1	- UART_TX	Transmit
2	- Ground	Gnd
3	- UART_RX	Receive

1.3 Chassis Overview

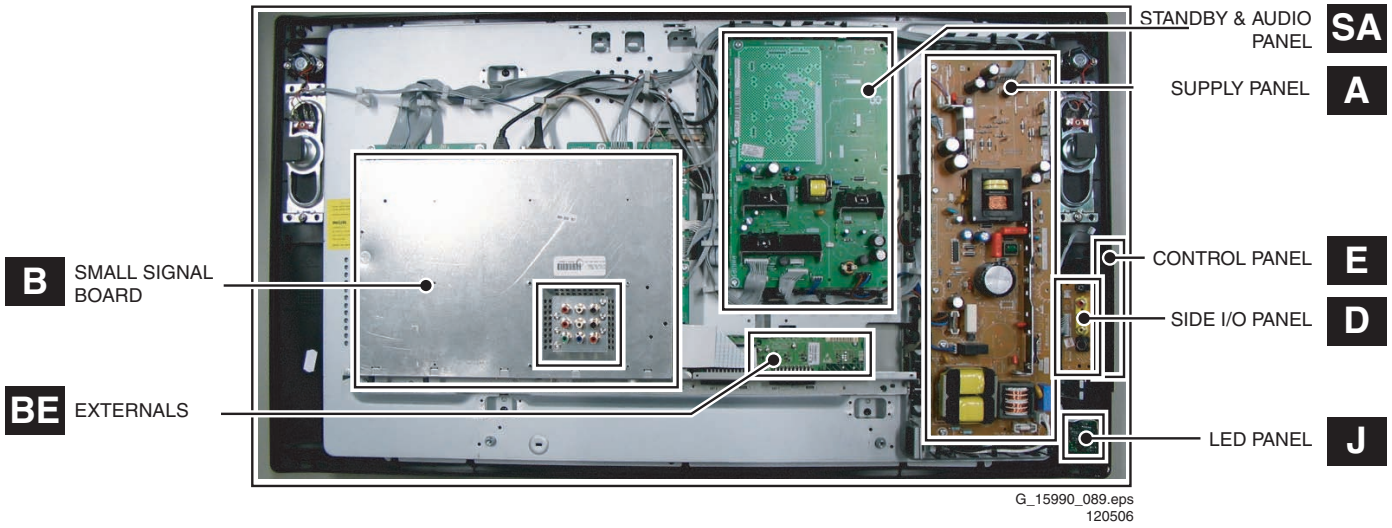

Figure 1-10 PWB/CBA locations ME6 styling (32PF9531/10 and 32PF9631D/10)

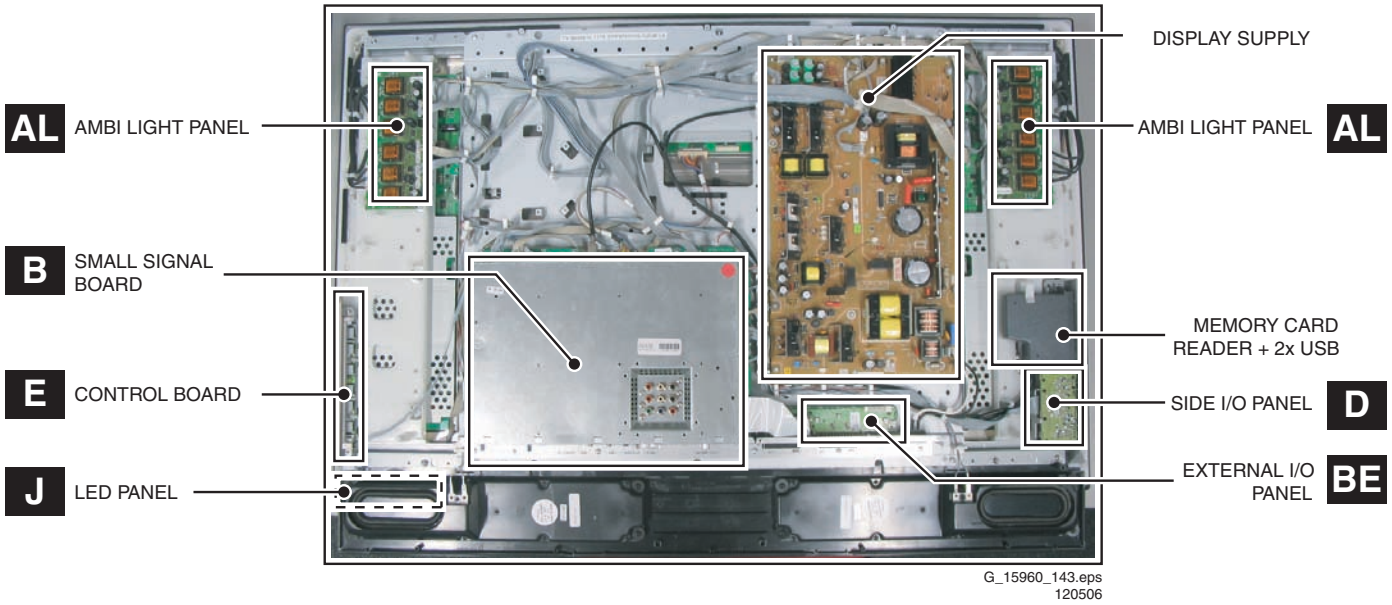

Figure 1-11 PWB/CBA locations Top B styling (32PF9731D/10, 37PF9731/69, 37PF9731D/10 and 42PF9731D/10)

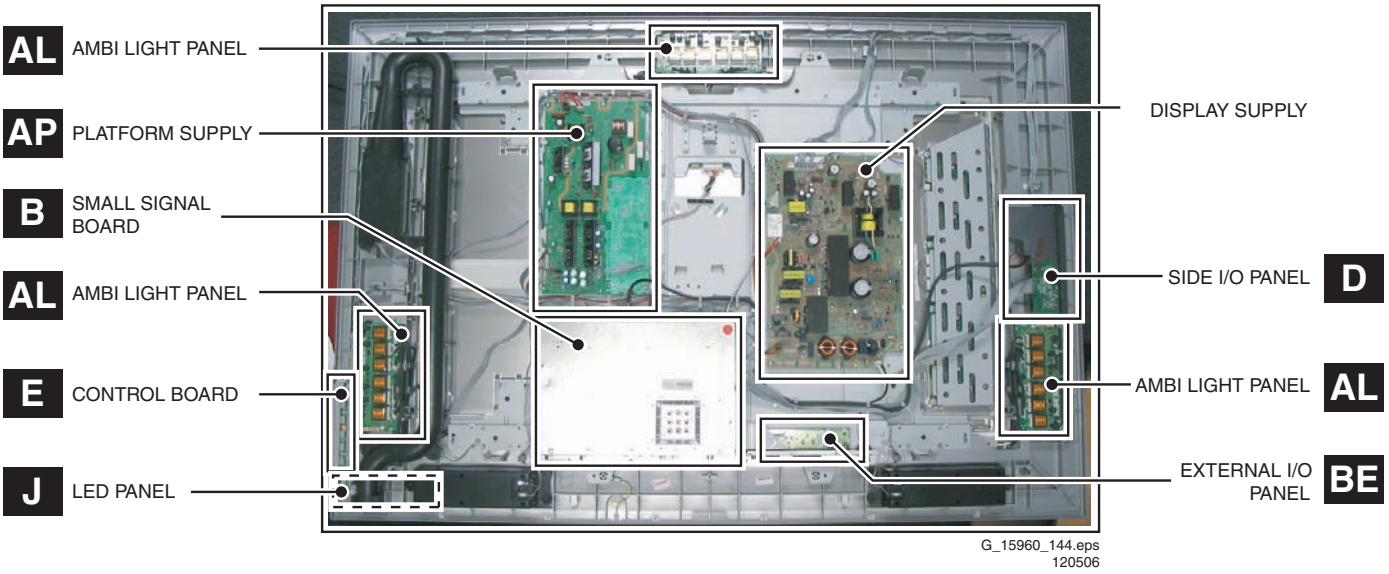

Figure 1-12 PWB/CBA locations Top A styling (42PF9831/69 and 42PF9831D/10)

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

2.1 Safety Instructions

Safety regulations require the following **during** a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol ⚠, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
  1. Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
  2. Set the Mains/AC Power switch to the "on" position (keep the Mains/AC Power cord unplugged!).
  3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "off" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD ⚠). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
  – Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  – Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⏚), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (⊓⊓) and without (⊼⊼) aerial signal. Measure the voltages in the power supply section both in normal operation (⏻) and in stand-by (⏻). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the “double-D symbol”, are trademarks of Dolby Laboratories.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads (μ= x10^{-6}), nano-farads (n= x10^{-9}), or pico-farads (p= x10^{-12}).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 Rework on BGA (Ball Grid Array) ICs

General

Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

Device Removal

As is the case with any component that, is being removed, it is essential when removing an (LF)BGA, that the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the risk of warping the PWB. To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

Area Preparation

When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA.
Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent.
After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA.
Note: Do not apply solder paste, as this has been shown to result in problems during re-soldering.

Device Replacement
The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

More Information
For more information on how to handle BGA devices, visit this URL: *www.atyourservice.ce.philips.com* (needs subscription, not available for all regions). After login, select “Magazine”, then go to “Repair downloads”. Here you will find Information on how to deal with BGA-ICs.

2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 1991 week 18).

Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.

Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:
- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  – To reach a solder-tip temperature of at least 400°C.
  – To stabilise the adjusted temperature at the solder-tip.
  – To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch “off” unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly **to avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be delivered in so-called "dry-packaging" to protect the IC against moisture. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets "wet" inside and during the heating time the structure of the IC will be destroyed due to high (steam-) pressure inside the body. If the packaging was opened before usage, the IC has to be heated up for some hours (around 90°C) for drying (think of ESD-protection!).
  Do not re-use BGAs at all!
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:
- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid mix of two alloys).

Caution: For BGA-ICs, you **must** use the correct temperature-profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions)
You will find this and more technical information within the "Magazine", chapter "Repair downloads".
For additional questions please contact your local repair help desk.

2.3.5 Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-1) is composed. From this date on, the **third digit** in the serial number (example: AG**2**B0335000001) indicates the number of the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s.
By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used.
If the third digit of the serial number contains the number 1 (example: AG**1**B033500001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG**2**B0335000001), then there are two different B.O.M.s. ***Information about this is important for ordering the correct spare parts!***
For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

2.3.6 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- **Always respect voltages**. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

3. Directions for Use

You can download this information from the following websites:
http://www.philips.com/support
http://www.p4c.philips.com

4. Mechanical Instructions

Index of this chapter:

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassemble instructions in described order.

This chassis comes with three different stylings:

- “ME6”, for type numbers 32PF9531/10 and 32PF9631D/10
- “Top B”, for type numbers 32PF9731D/10, 37PF9731/69, 37PF9731D/10 and 42PF9731D/10
- “Top A”, for type numbers 42PF9831/69 and 42PF9831D/10.

The mechanical instructions for the different stylings are described separately in this chapter.

4.1 Cable Dressing

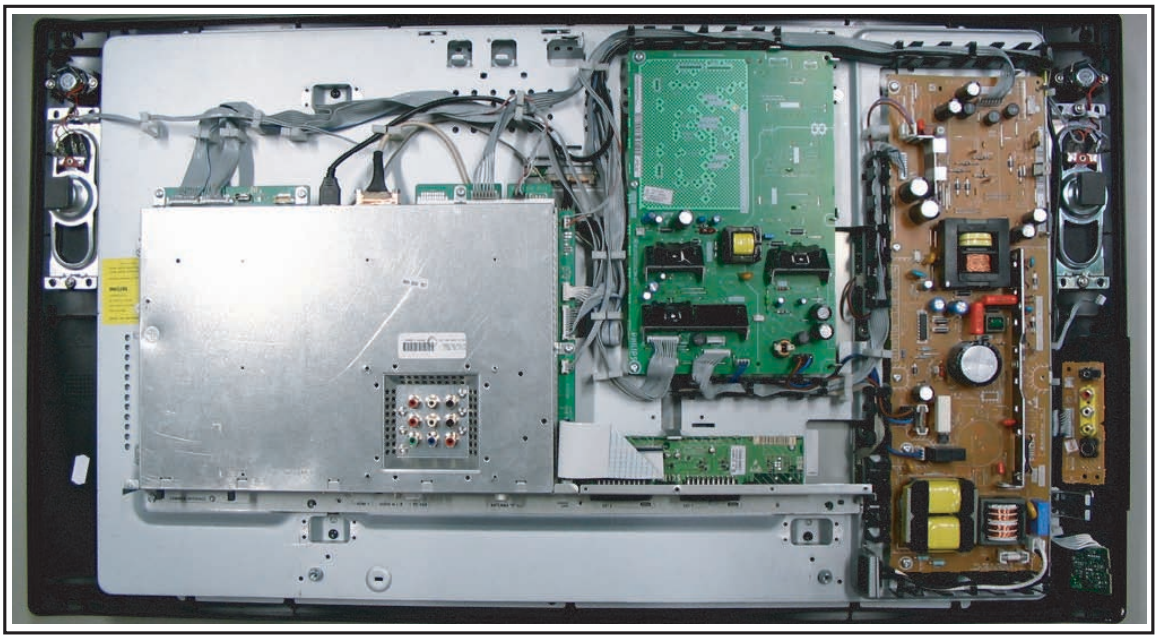

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Figure 4-1 Cable dressing ME6 styling (32PF9531/10 and 32PF9631D/10)

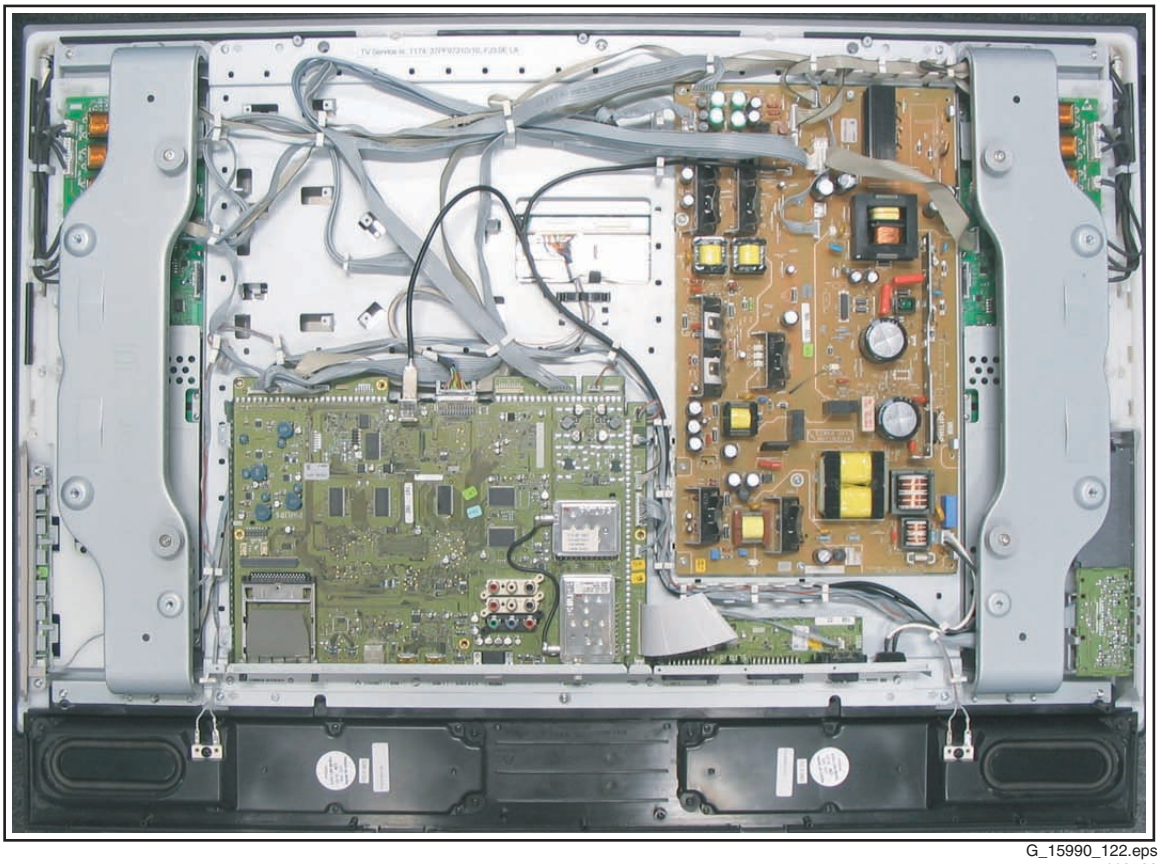

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Figure 4-2 Cable dressing Top B styling (32PF9731D/10, 37PF9731/69, 37PF9731D/10 and 42PF9731D/10)

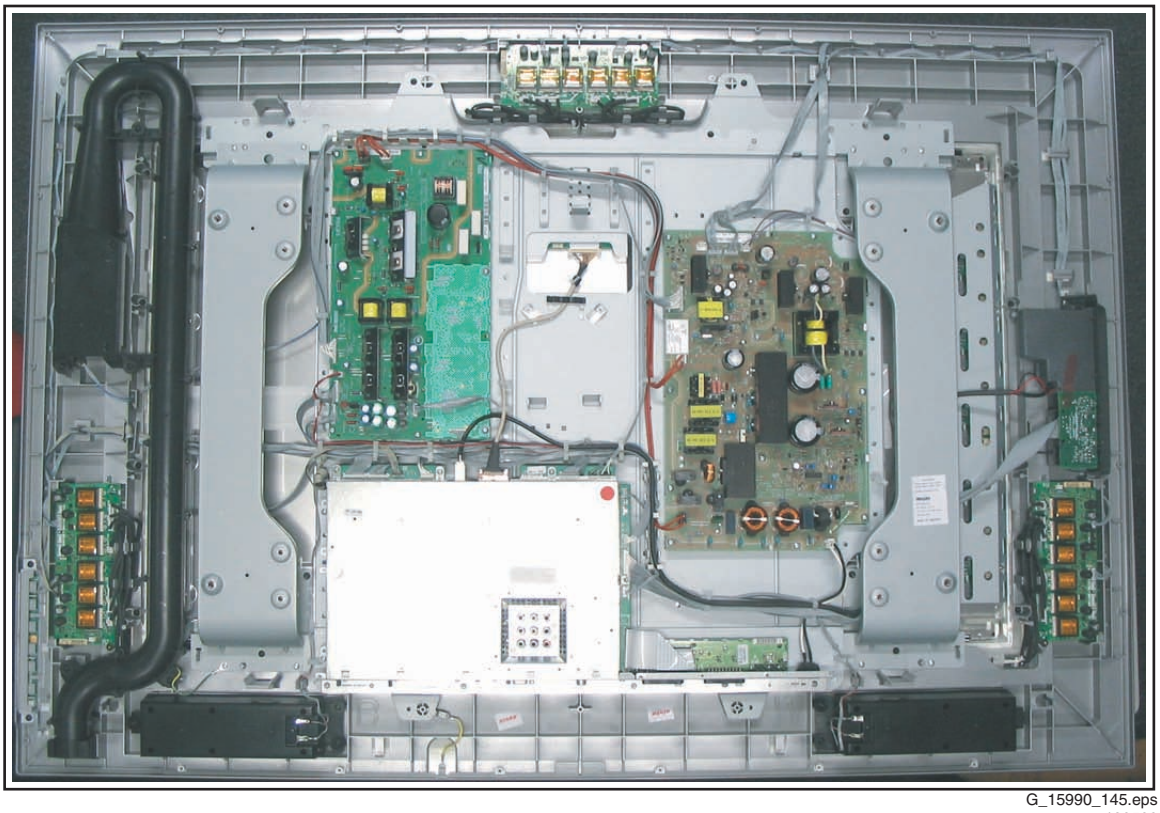

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Figure 4-3 Cable dressing Top A styling (42PF9831/69 and 42PF9831D/10)

4.2 Service Positions

For easy servicing of this set, there are a few possibilities created:

- The buffers from the packaging.
- Foam bars (created for Service).
- Aluminium service stands (created for Service).

4.2.1 Foam Bars

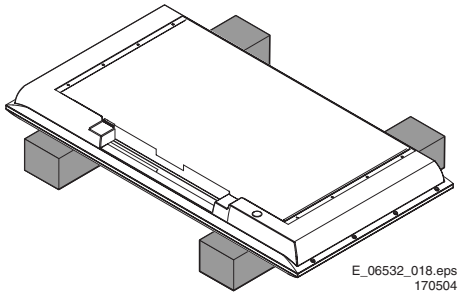

Figure 4-4 Foam bars

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. By laying the TV face down on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments.
By placing a mirror under the TV, you can monitor the screen.

4.2.2 Aluminium Stands

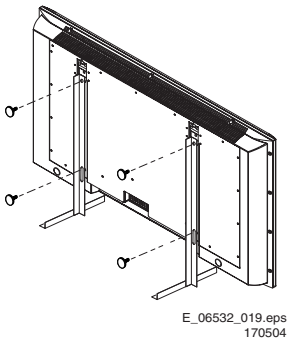

Figure 4-5 Aluminium stands (drawing of MkI)

The new MkII aluminium stands (not on drawing) with order code 3122 785 90690, can also be used to do measurements, alignments, and duration tests. The stands can be (dis)mounted quickly and easyly by means of sliding them in/ out of the "mushrooms". The new stands are backwards compatible with the earlier models.
Important: For (older) FTV sets without these "mushrooms", it is obligatory to use the provided screws, otherwise it is possible to damage parts inside the set !

4.3 Assy/Panel Removal “ME6” styling

4.3.1 Rear Cover

Disconnect the Mains/AC Power cord before you remove the rear cover!

1. Place the TV set upside down on a table top, using the foam bars (see part “Foam Bars”).
   Caution: do **not** put pressure on the display, but let the monitor lean on the Front cover.
2. Remove the stand by removing the tapping screws [1], that hold the stand.
3. Remove T10 tapping and parker screws [2] from the top, centre, bottom, left and right side of the Rear Cover and underneath the main I/O panel.
4. Lift the Rear Cover from the TV. Make sure that wires and flat foils are not damaged while lifting the rear cover.

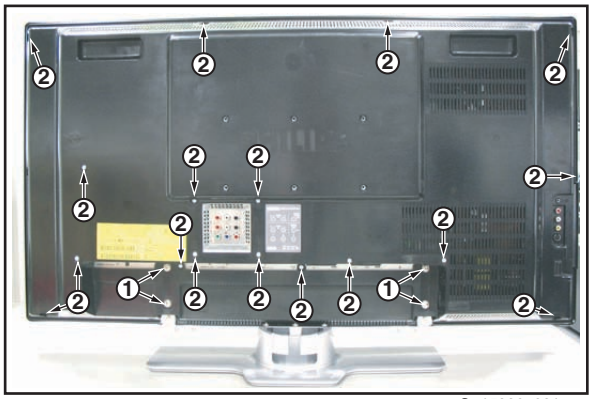

Figure 4-6 Rear cover removal

4.3.2 VESA wall plate

The VESA wall mount plate can be removed by removing the T10 tapping screws [1] that hold the plate. See figure “VESA wall mount plate removal”.

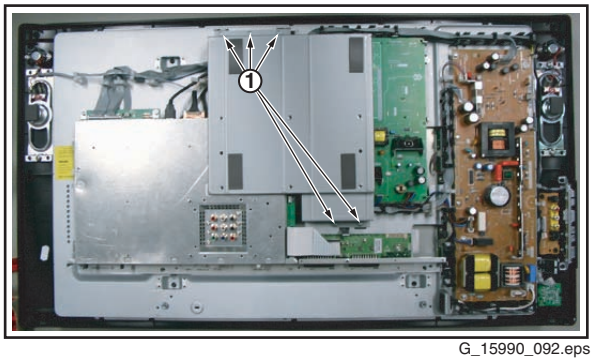

Figure 4-7 VESA wall mount plate removal

4.3.3 Speaker

After removing the rear cover, you gain access to the speakers.
Caution: never disconnect the speakers with a playing set, because otherwise the class-D audio amplifiers could be damaged.

4.3.4 Control Panel

The Control Panel can be taken out by removing the two T10 screws [1] that hold the plastic frame. After the panel has been taken out, the connector can be released. See figure “Control Panel, LED Panel and Side I/O Panel removal”. When defective, replace the whole unit.

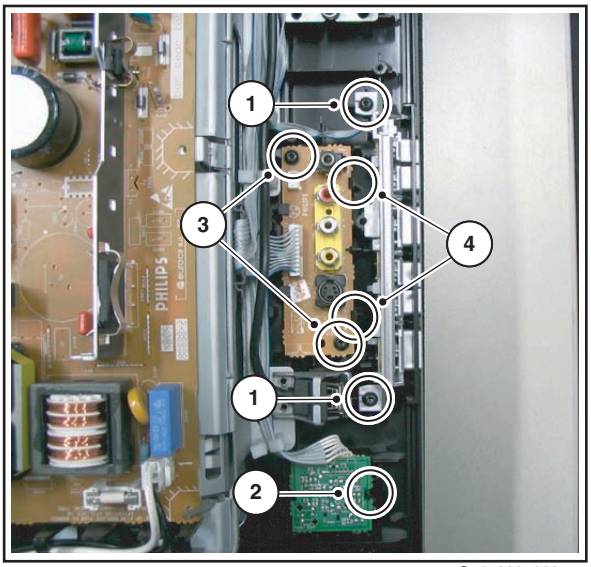

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Figure 4-8 Control panel, LED panel and side I/O panel removal

The assy is packed into a plastic frame. To take the assy out, lift the four clamps [1] of the frame and take the assy out. See Figure “Control panel assy removal”.

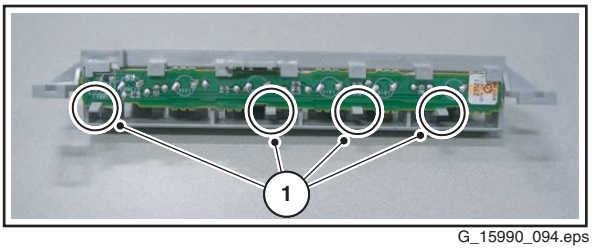

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Figure 4-9 Control panel assy removal

When defective, replace the whole unit.

4.3.5 LED Panel

The LED Panel can be removed by releasing clamp [2] that holds the assy. It hinges on the left side. See figure “Control Panel, LED Panel and Side I/O Panel removal”.
When defective, replace the whole unit.

4.3.6 Side I/O Panel

The Side I/O Panel can be removed together with its plastic frame. See figure “Control Panel, LED Panel and Side I/O Panel removal”.

1. Remove the T10 parker screws [3].
2. Push back the clamps [4] on the right side that hold the assy.
3. Take out the assy from the plastic frame, it hinges on the left side.

When defective, replace the whole unit.

4.3.7 Stand-by/Audio Panel

1. Disconnect all cables from the Stand-by/Audio Panel.
2. Remove T10 tapping screws [1] from the Stand-by/Audio Panel. See figure “Stand-by/Audio Panel removal”.
3. Take out the Stand-by/Audio Panel (it hinges at the right side).

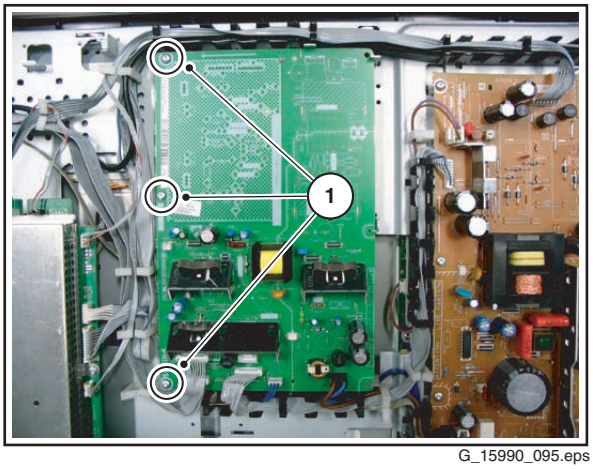

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Figure 4-10 Stand-by/Audio panel removal

4.3.8 External I/O SCART Panel

The External I/O SCART Panel can be taken out by removing the flat cable and removing the parker screws [1] on the SSB bottom shield that hold the assy. See figure “External I/O SCART Panel removal”.

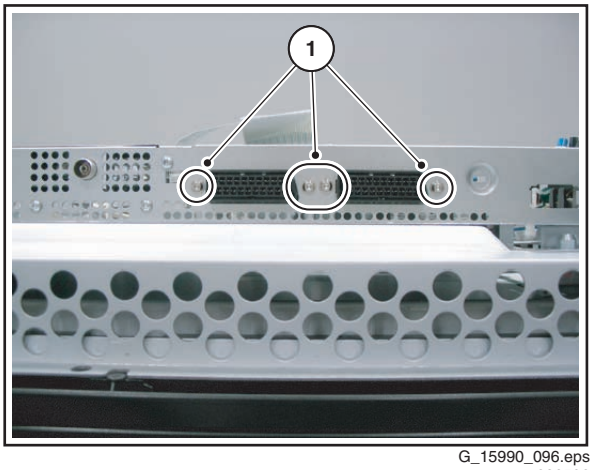

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Figure 4-11 External I/O SCART panel

4.3.9 Small Signal Board (SSB)

Caution: it is absolutely mandatory to remount all different screws at their original position during re-assembly. Failure to do so may result in damaging the SSB.

Removal from the set

The SSB can, together with the External I/O SCART Panel, be taken out of the set by removing the T10 tapping screw [1] on the left side of the panel. See “SSB top shielding”. The frame that holds the SSB and the External I/O SCART Panel hinges at the right side. Disconnect all cables from the SSB before lifting the frame from the set. This includes the USB plug and the fragile LVDS cable.

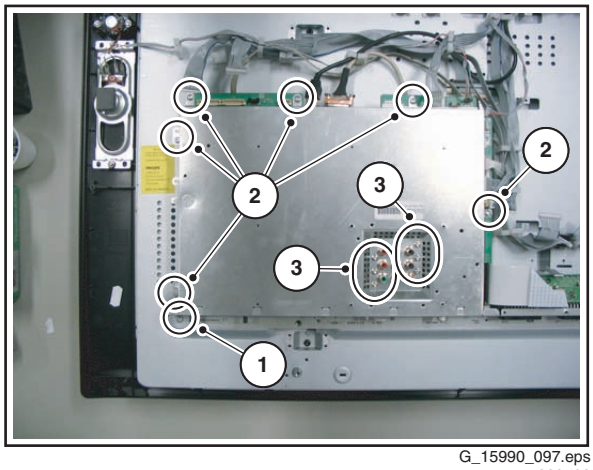

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Figure 4-12 SSB top shielding

Removing the shielding

1. Remove the T10 tapping screws [2] on the outer rim of the SSB top shielding.
2. Remove the T10 parker screws [3] around the External I/O SCART Panel.
3. Remove the T10 tapping screws [1] on the SSB bottom shielding. See figure “SSB bottom shielding” for details.

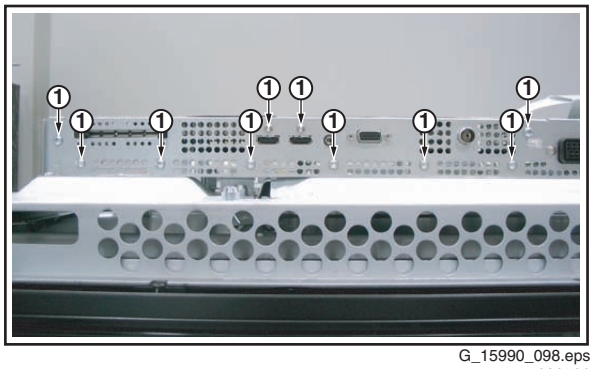

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Figure 4-13 SSB bottom shielding

Removing the SSB and External I/O Panel

See figure “SSB and External I/O SCART Panel removal”.

- The SSB is mounted with 2 screws on the bottom shielding.
- The External I/O Panel is mounted with 4 screws on the bottom shielding.

4.3.10 Supply Panel

See figure “Supply Panel” for details.

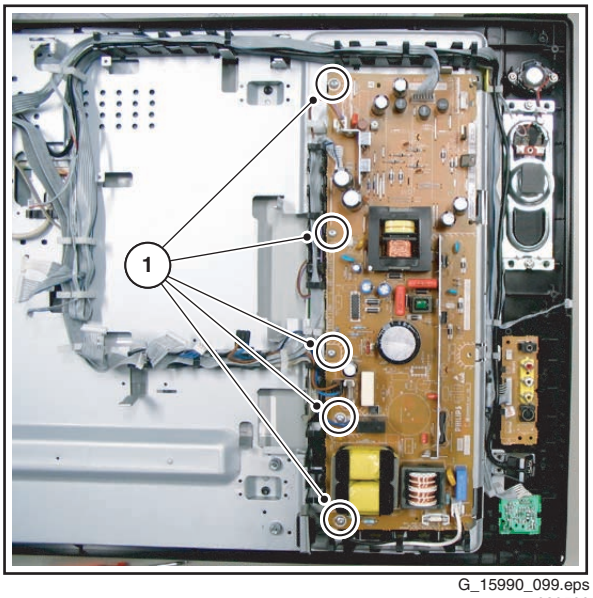

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Figure 4-14 Supply panel

1. Remove the T10 tapping screws.
2. Unplug the cables.
3. Take the panel out (it hinges on the right side).

4.3.11 LCD Display Panel

For exchanging the LCD display, see figure “LCD Display Panel removal”.

1. Remove T10 parker screws [1], indicated with an arrow on the rim.
2. Remove T15 tapping screws [2].
3. Unplug the speaker cables.
4. Unplug the fragile LVDS connector.
5. Unplug the two connectors [4] on the LCD inverter panel.

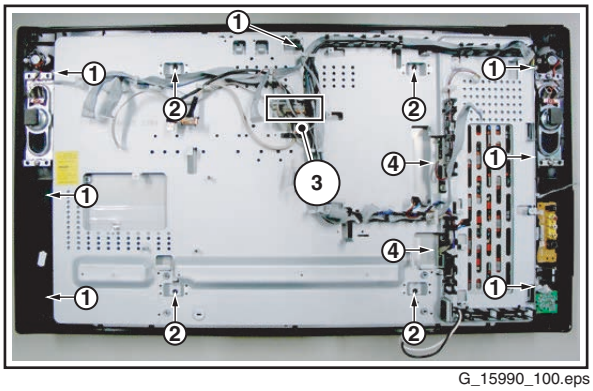

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Figure 4-15 LCD display panel removal

Now the subframe can be lifted, together with the Side I/O-, Side USB- and LED Panel. See figure “Subframe lift”. After that, the LCD Panel can be lifted from the set.

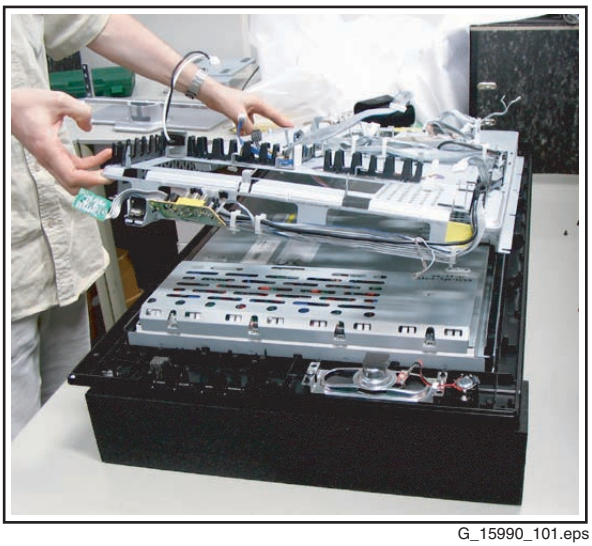

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Figure 4-16 Subframe lift

4.4 Assy/Panel Removal “Top A” styling

4.4.1 Rear Cover

Disconnect the Mains/AC Power cord before you remove the rear cover!

1. Place the TV set upside down on a table top, using the foam bars (see part “Foam Bars”).
   Caution: do **not** put pressure on the display, but let the monitor lean on the front cover.
2. Remove the stand.
3. Remove mushrooms [1].
4. Remove screws [2].
5. Lift the Rear Cover from the TV. Make sure that wires and flat foils are not damaged while lifting the rear cover.

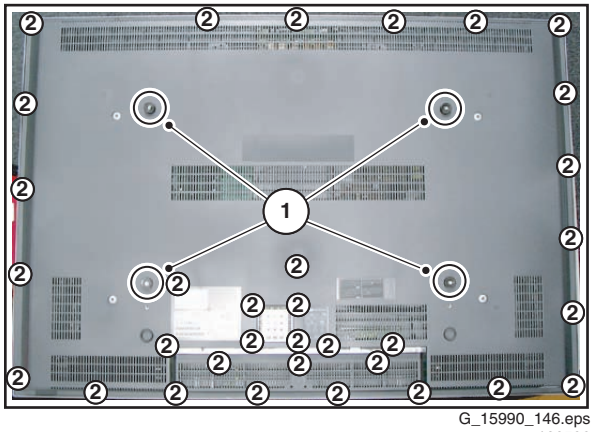

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Figure 4-17 Rear cover removal

4.4.2 Speakers

After removing the rear cover, you gain access to the speakers.
Caution: never disconnect the speakers with a playing set, because otherwise the class-D audio amplifiers could be damaged.

4.4.3 Key Control Panel

1. Remove the rear cover, as described previously.
2. Remove screws [1].
3. Release clips [2] and slide the unit away from the side of the set.
4. Release clips [3] and slide the PWB out of the plastic casing.
5. Unplug connector [4].

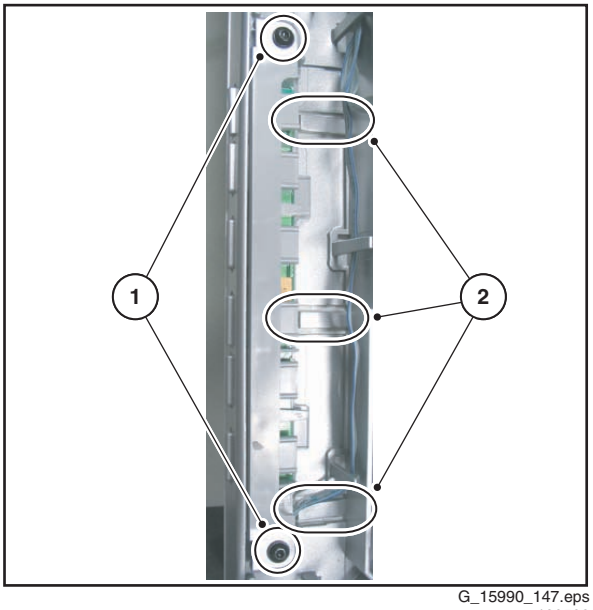

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Figure 4-18 Key control panel removal 1/2

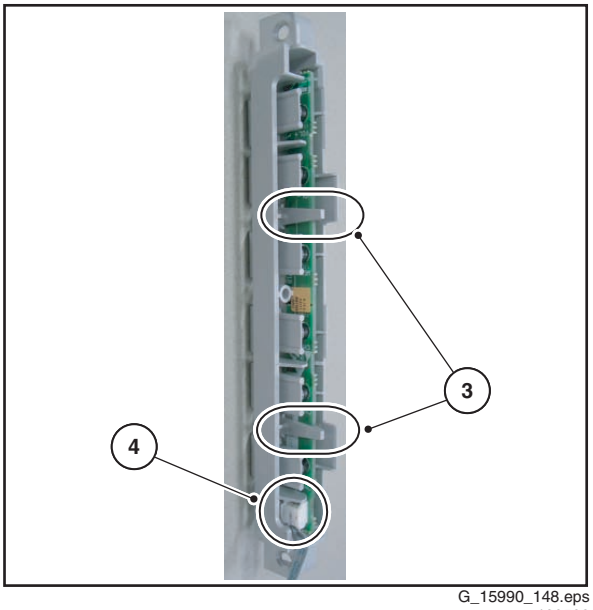

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Figure 4-19 Key control panel removal 2/2

When defective, replace the whole unit.

4.4.4 Side I/O Panel

1. Remove the rear cover, as described previously.
2. Release clamp [1] and slide the PWB out of its casing.
3. Unplug connector [2] from the panel.

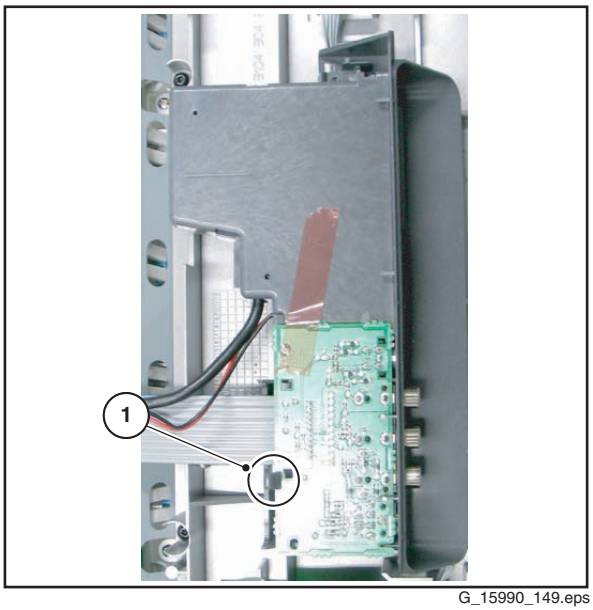

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Figure 4-20 Side I/O panel 1/2

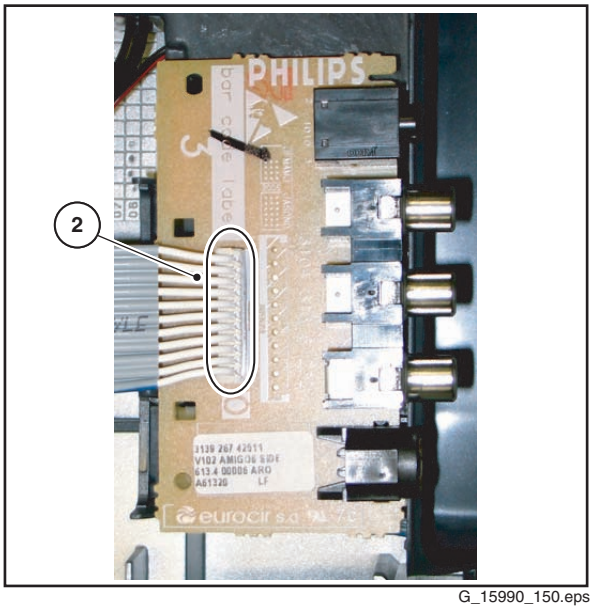

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Figure 4-21 Side I/O panel 2/2

4.4.5 Memory Card reader / USB connector

1. Remove the rear cover, as described previously.
2. Release clamps [1] and slide the unit out of its plastic frame.
3. Unplug the USB connector from the SSB panel, and the power cable from the platform PSU.

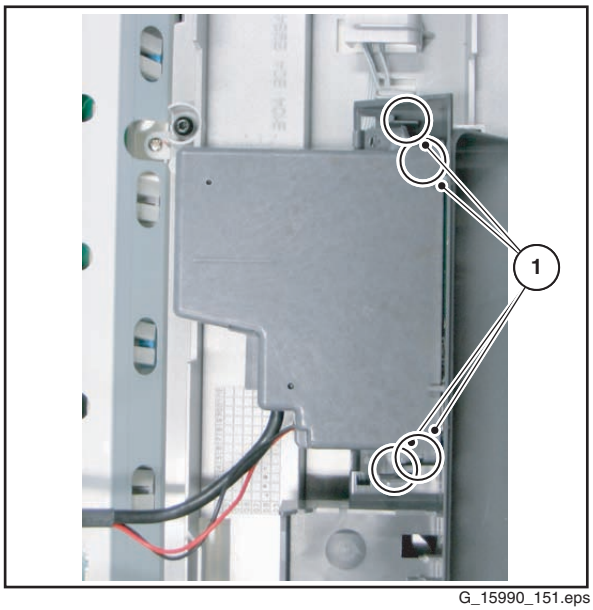

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Figure 4-22 Memory card reader / USB connector

4.4.6 External I/O SCART Panel

1. Remove the rear cover, as described previously.
2. Unplug connector [1] from the panel.
3. Remove screws [2].

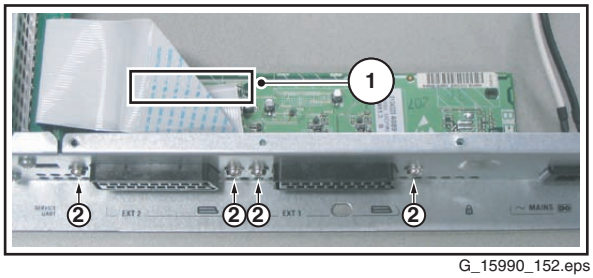

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Figure 4-23 External I/O SCART panel

4.4.7 Small Signal Board (SSB)

Caution: it is absolutely mandatory to remount all different screws at their original position during re-assembly. Failure to do so may result in damaging the SSB.

Removal from the set

1. Remove the rear cover, as described previously.
2. Unplug connector [1] from the panel PSU.
3. Unplug all connectors [2] from the SSB panel.
4. Remove screws [3].
5. Take the complete SSB module out of the set and place it on a flat workbench.

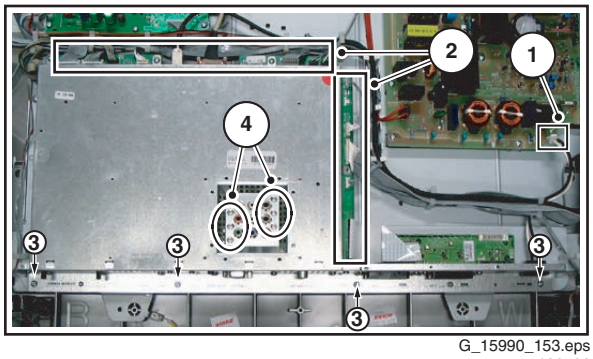

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Figure 4-24 SSB panel 1/3

Removing the shielding

1. Remove screws [4] .
2. Remove the connector plate and the top shielding.
3. Remove screws [5] and remove the SSB panel from the bottom shielding.

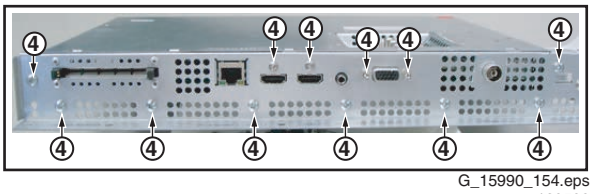

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Figure 4-25 SSB panel 2/3

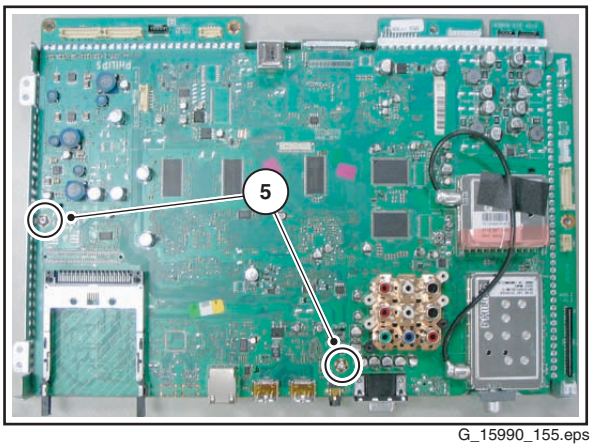

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Figure 4-26 SSB panel 3/3

4.4.8 Platform Supply

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].

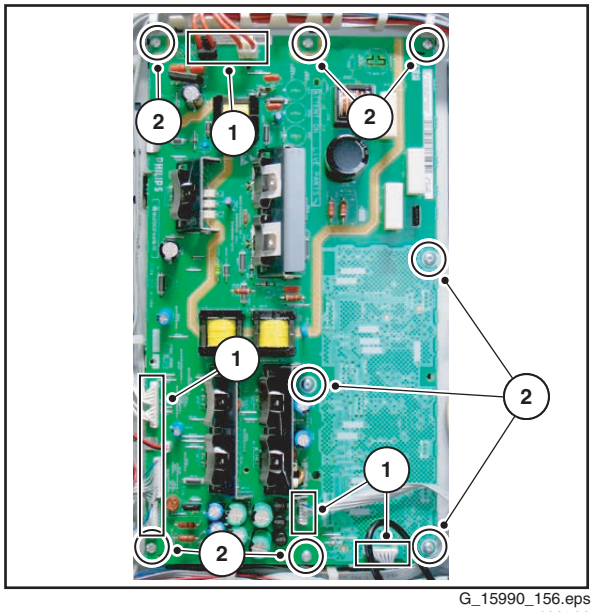

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Figure 4-27 Platform supply

4.4.9 LCD Panel Supply

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].

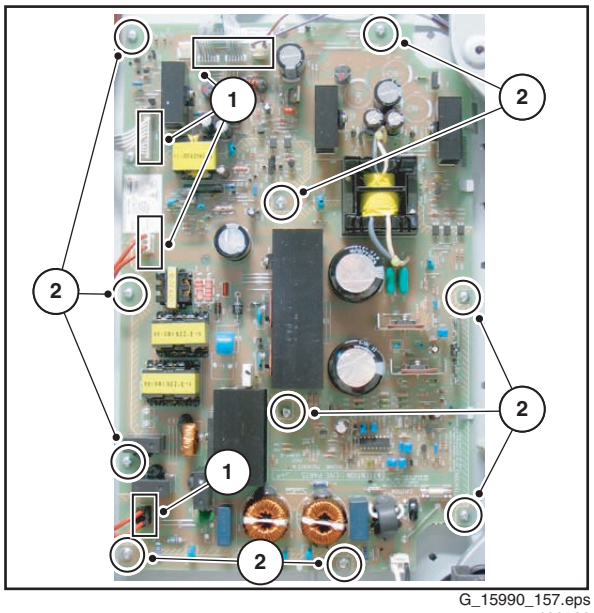

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Figure 4-28 LCD panel supply

4.4.10 LCD Display Panel

For exchanging the LCD display, see figures “LCD Display Panel removal”.

1. Remove the rear cover, as described previously.
2. Remove the SSB module, as described previously.
3. Remove the screws [1]
4. Remove brackets [2].
5. Unplug connectors [3] from the panel PSU.
6. Unplug connector [4] from the platform PSU.
7. Unplug connectors [5] from the loudspeakers.

8. Unplug connectors [6] from the right hand ambilight driver PWB.
9. Unplug earth wire [7].
10. Carefully unplug the fragile LVDS connector [8].
11. Unplug connector [9] from the X-Main PWB.
12. Remove screws [10].
13. Remove the metal subframe [11].
14. Remove screws [12].
15. Remove plastic subframe [13].
16. Release catches [14] and lift the ambilight frame [15] from the remains of the set.
17. Remove the LCD panel [16].

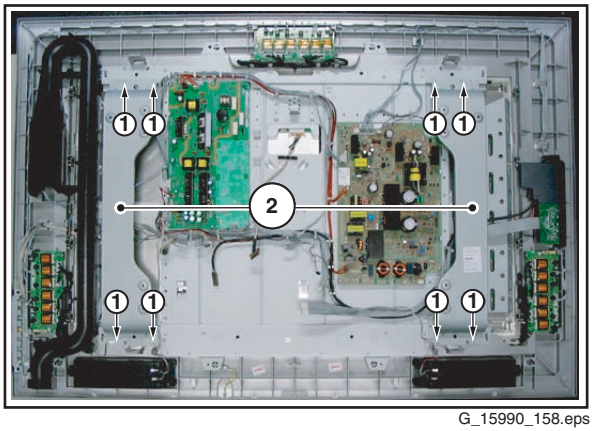

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Figure 4-29 LCD display panel removal 1/4

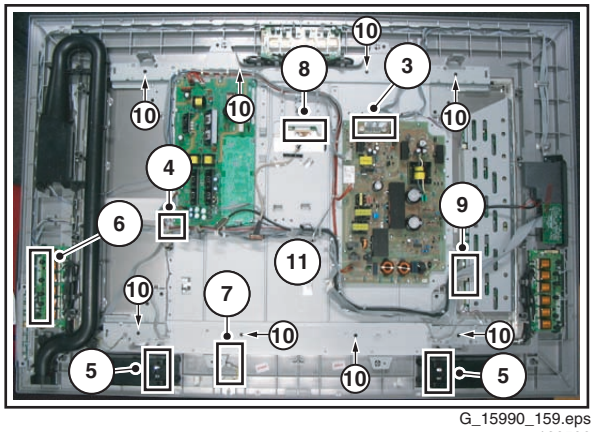

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Figure 4-30 LCD display panel removal 2/4

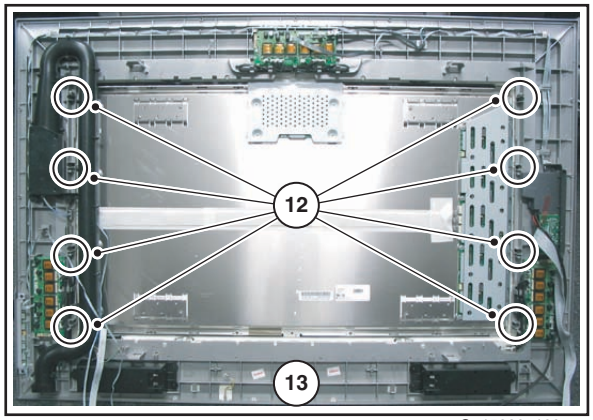

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Figure 4-31 LCD display panel removal 3/4

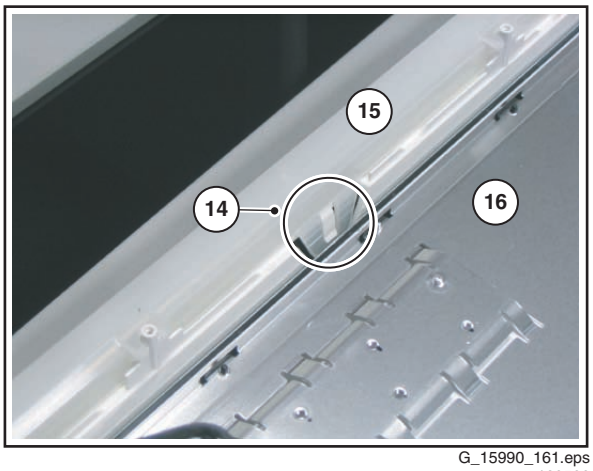

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Figure 4-32 LCD Display panel removal 4/4

4.4.11 LED/IR Sensor Removal

1. Remove the LCD panel, as described previously.
2. Remove screws [1] .
3. Pull bracket [2] out of the frame.
4. Remove screws [3].
5. Pull the PWB out of the bracket.
6. Unplug connector [4].

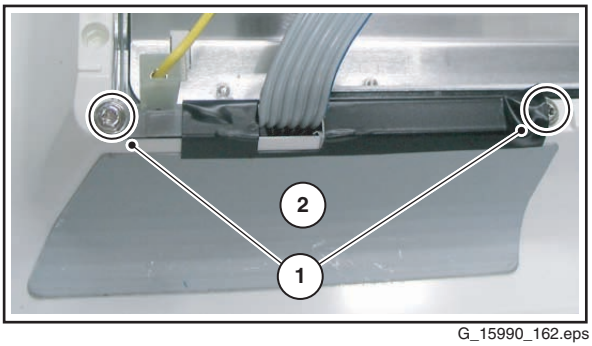

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Figure 4-33 LED/IR sensor removal 1/3

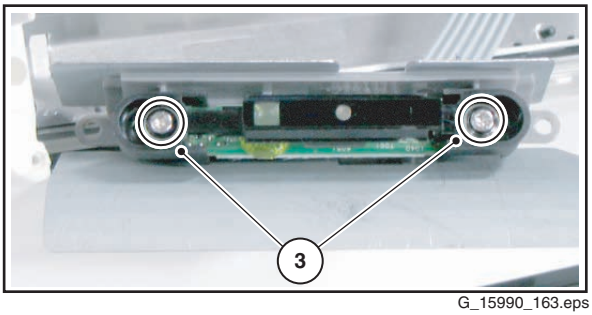

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Figure 4-34 LED/IR sensor removal 2/3

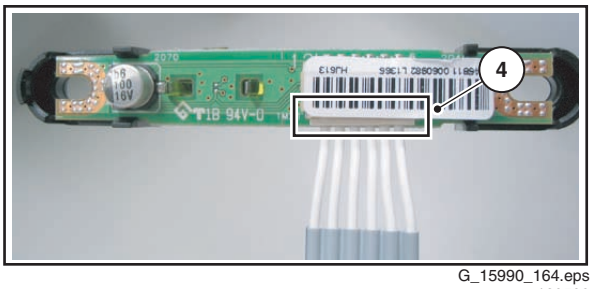

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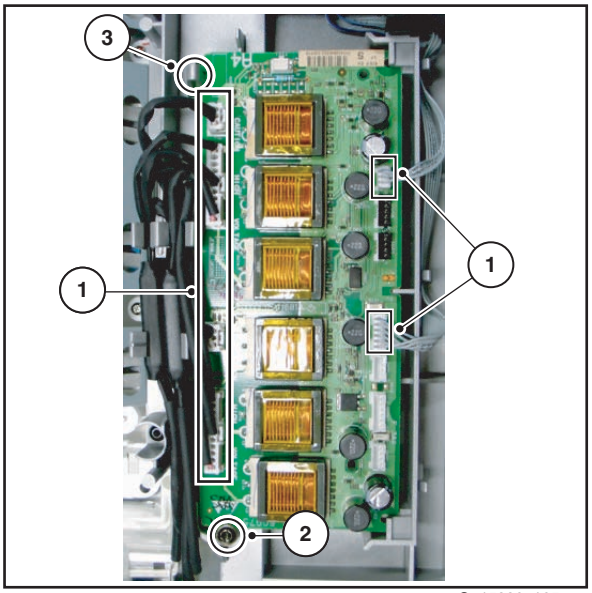
Figure 4-35 LED/IR sensor removal 3/3

4.4.12 Ambilight Inverter Board Left

1. Remove the rear cover, as described previously.
2. Unplug connectors [1].
3. Remove screw [2].
4. Release clamp [3].



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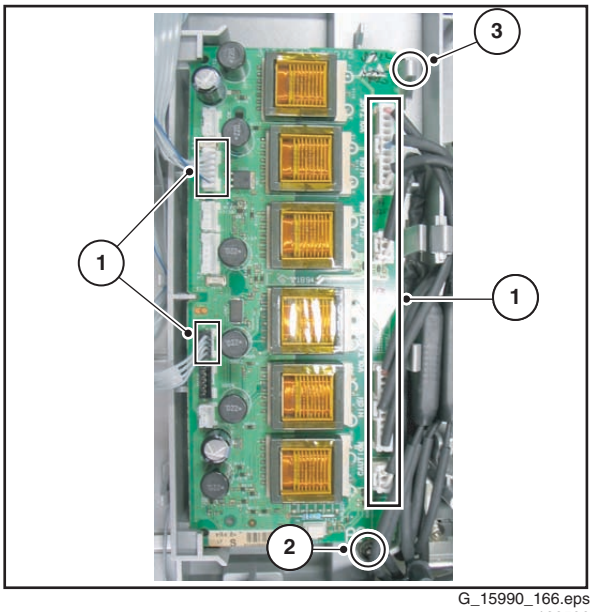
120506

Figure 4-36 Ambilight inverter board left

4.4.13 Ambilight Inverter Board Right

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] .
3. Remove screw [2].
4. Release clamp [3].

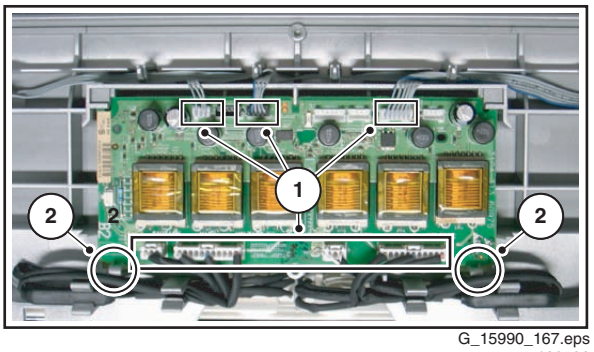


G_15990_166.eps
120506

Figure 4-37 Ambilight inverter board right

4.4.14 Ambilight Inverter Board Top

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] .
3. Release clamp [2].



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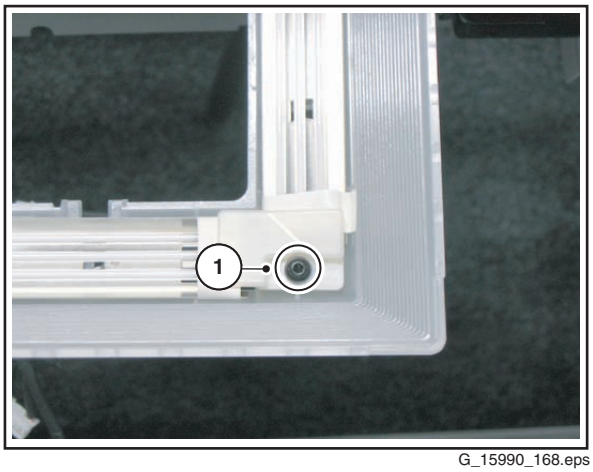
120506

Figure 4-38 Ambilight inverter board top

4.4.15 Ambilight Module

1. Carry out the disassembly “LCD Display Panel”, except for the last point.
2. Put the ambilight frame on a flat workbench.
3. Remove screws [1].



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120506

Figure 4-39 Ambilight module

4.5 Assy/Panel Removal “Top B” styling

4.5.1 Rear Cover

Disconnect the Mains/AC Power cord before you remove the rear cover!

1. Place the TV set upside down on a table top, using the foam bars (see part “Foam Bars”).
   Caution: do **not** put pressure on the display, but let the monitor lean on the front cover.
2. Remove the stand.
3. Remove mushrooms [1].
4. Remove screws [2].
5. Lift the Rear Cover from the TV. Make sure that wires and flat foils are not damaged while lifting the rear cover.

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120506

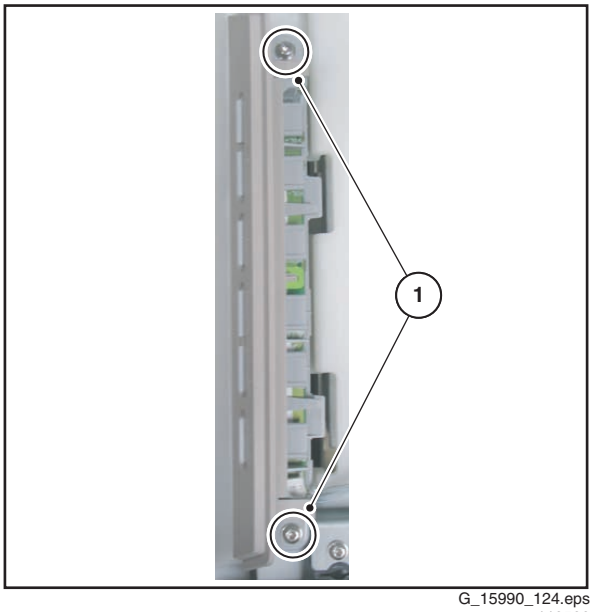
Figure 4-40 Rear cover removal

4.5.2 Speakers

After removing the rear cover, you gain access to the speakers.
Caution: never disconnect the speakers with a playing set, because otherwise the class-D audio amplifiers could be damaged.

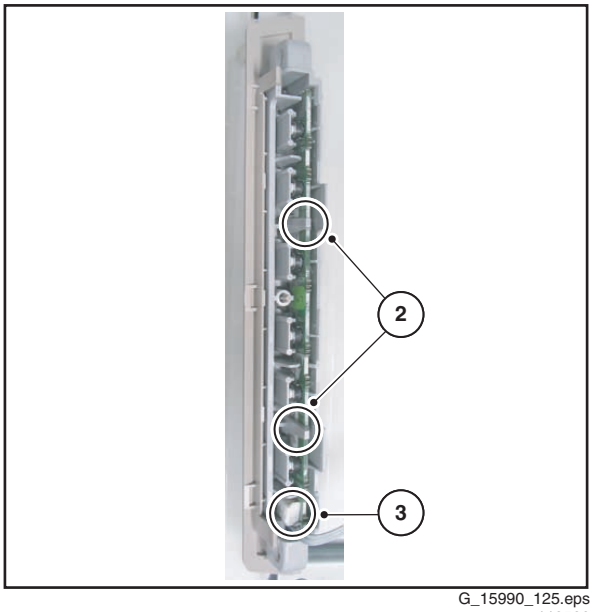
4.5.3 Key Control Panel

1. Remove the rear cover, as described previously.
2. Remove screws [1].
3. Release clips [2] and slide the PWB out of the plastic casing.
4. Unplug connector [3].



G_15990_124.eps
110506

Figure 4-41 Key control panel removal 1/2



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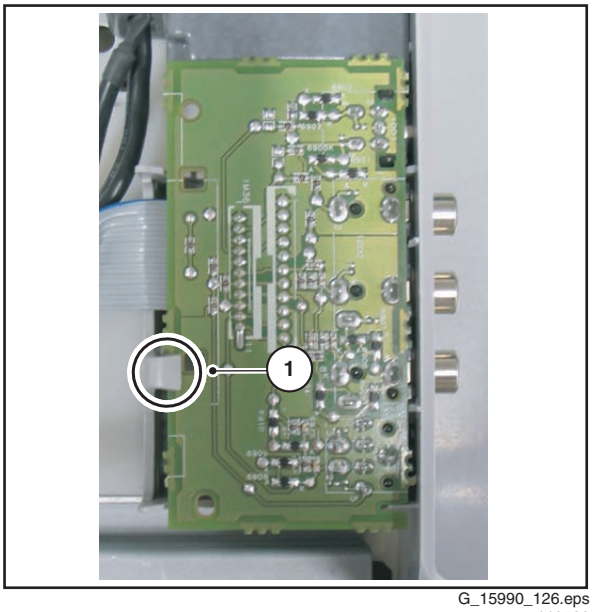
110506

Figure 4-42 Key control panel removal 2/2

When defective, replace the whole unit.

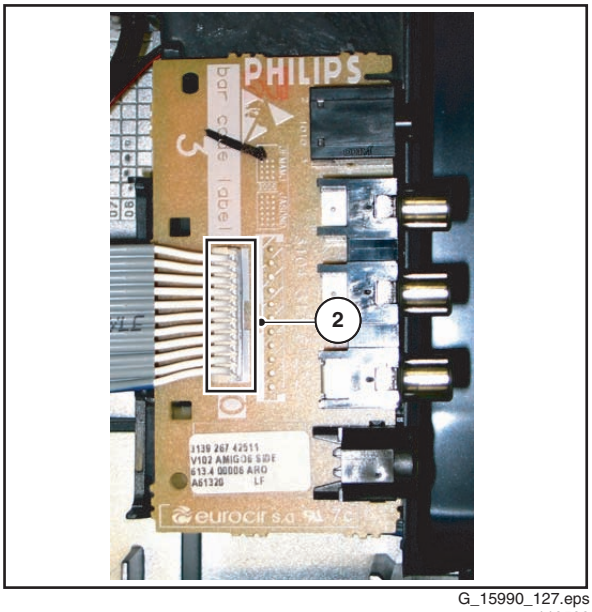
4.5.4 Side I/O Panel

1. Remove the rear cover, as described previously.
2. Release clamp [1] and slide the PWB out of its casing.
3. Unplug connector [2] from the panel.



G_15990_126.eps
110506

Figure 4-43 Side I/O panel 1/2



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110506

Figure 4-44 Side I/O panel 2/2

4.5.5 Memory Card reader / USB connector

1. Remove the rear cover, as described previously.
2. Release clamps [1] and slide the unit out of its plastic frame.
3. Unplug the USB connector from the SSB panel, and the power cable from the PSU.

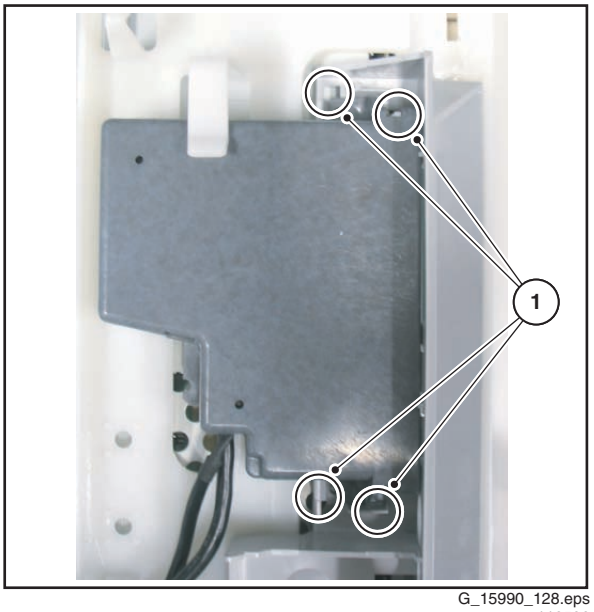

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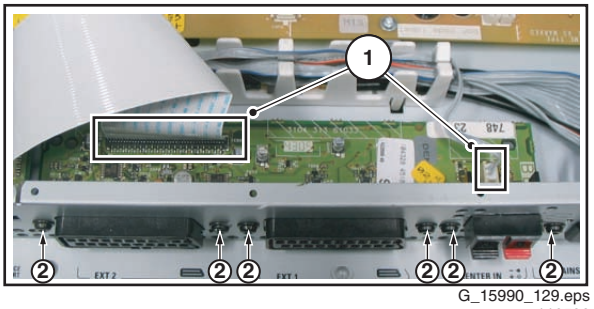
Figure 4-45 Memory card reader / USB connector

4.5.6 External I/O SCART Panel

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].



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110506

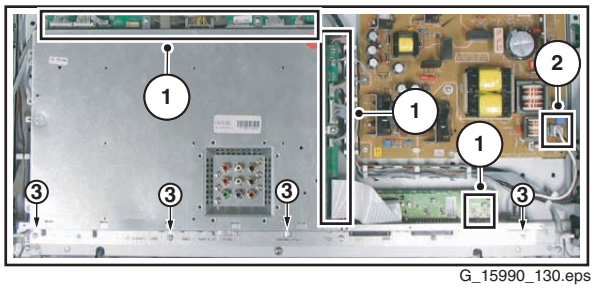
Figure 4-46 External I/O SCART panel

4.5.7 Small Signal Board (SSB)

Caution: it is absolutely mandatory to remount all different screws at their original position during re-assembly. Failure to do so may result in damaging the SSB.

Removal from the set

1. Remove the rear cover, as described previously.
2. Unplug all connectors [1] from the SSB panel.
3. Unplug connector [2] from the PSU.
4. Remove screws [3].
5. Take the complete SSB module out of the set and place it on a flat workbench.



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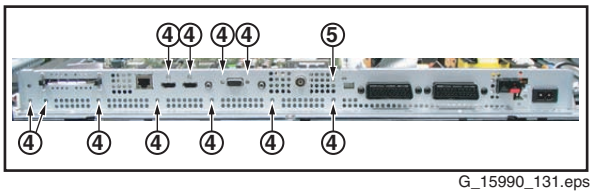
110506

Figure 4-47 SSB panel 1/4

Removing the shielding

1. Remove screws [4] .
2. Remove the connector plate [5] and the top shielding [6].
3. Remove screws [7] and remove the SSB panel from the bottom shielding.



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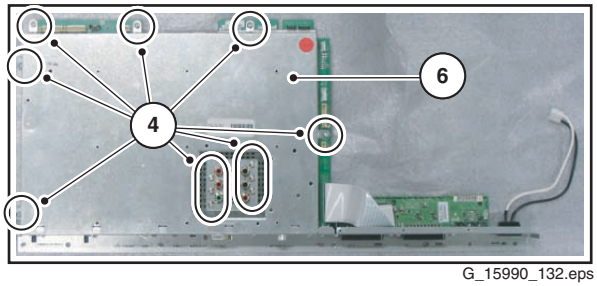
110506

Figure 4-48 SSB panel 2/4



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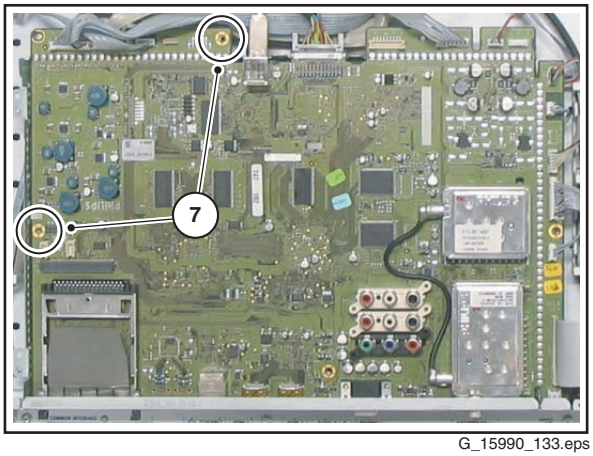
110506

Figure 4-49 SSB panel 3/4



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110506

Figure 4-50 SSB panel 4/4

4.5.8 Power Supply

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].

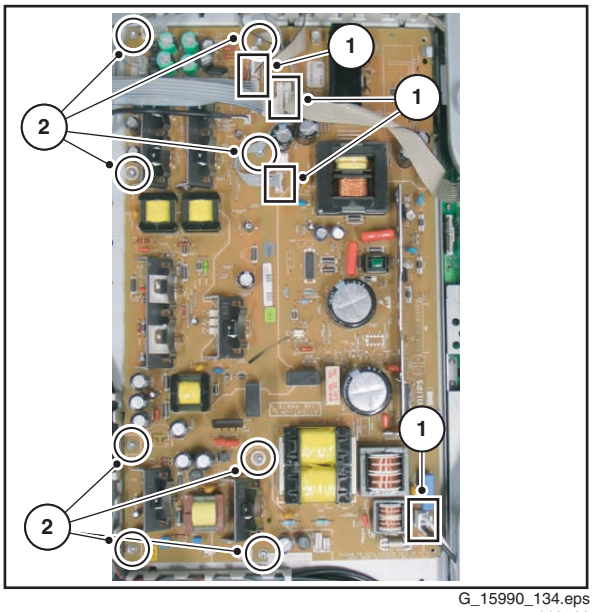

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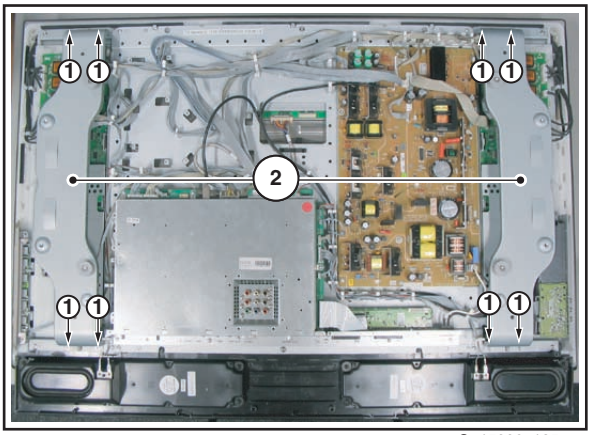
Figure 4-51 Platform supply

4.5.9 LCD Display Panel

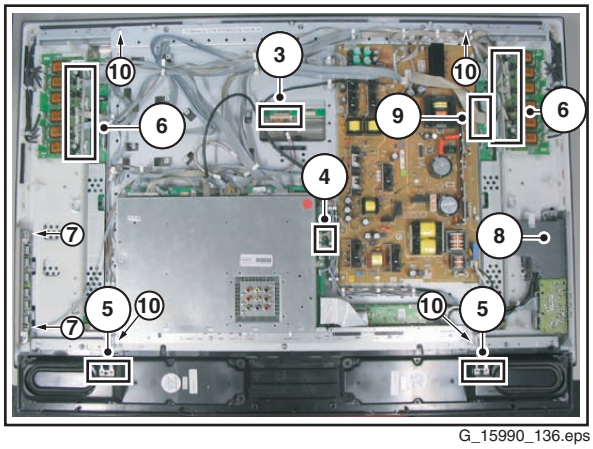
For exchanging the LCD display, see figures “LCD Display Panel removal”.

1. Remove the rear cover, as described previously.
2. Remove screws [1]
3. Remove brackets [2].
4. Unplug LVDS connector [3] from the panel.
5. Unplug connector [4] of the IR/LED panel from the SSB.
6. Unplug connectors [5] from the loudspeakers.
7. Unplug connectors [6] from the ambilight inverter PWB.
8. Remove screws [7] and put the key control unit on the subframe.
9. Release the Mem. Card Reader/Side I/O [8] and put it on the subframe.
10. Unplug connector [9] from the X-Main PWB.
11. Remove screws [10].
12. Remove the subframe [11].
13. Remove screws [12].
14. Remove brackets [13] and plastic ambilight frame [14].
15. Remove the LCD panel [15].



G_15990_135.eps
110506

Figure 4-52 LCD Display panel removal 1/4



G_15990_136.eps
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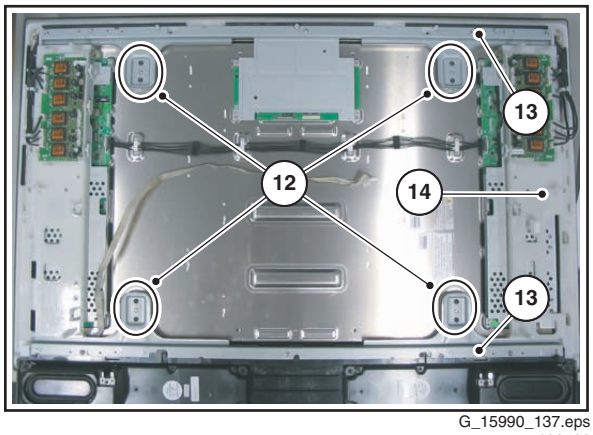
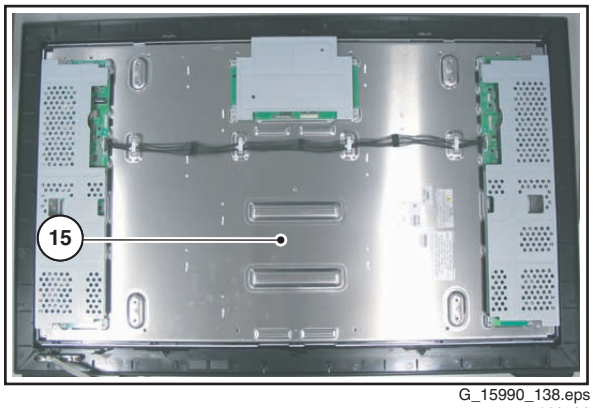
Figure 4-53 LCD display panel removal 2/4



G_15990_137.eps
120506

Figure 4-54 LCD display panel removal 3/4



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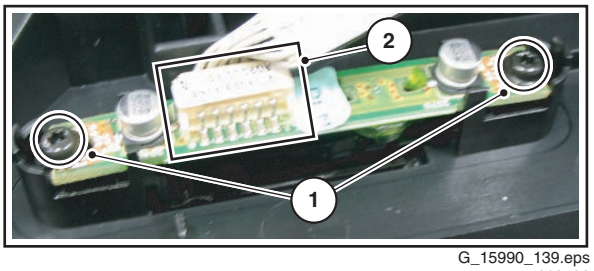
110506

Figure 4-55 LCD display panel removal 4/4

4.5.10 LED/IR Sensor Removal

1. Carry out the disassembly of the LCD panel, as described previously, except for the last point.
2. Remove screws [1] .
3. Unplug connector [2].

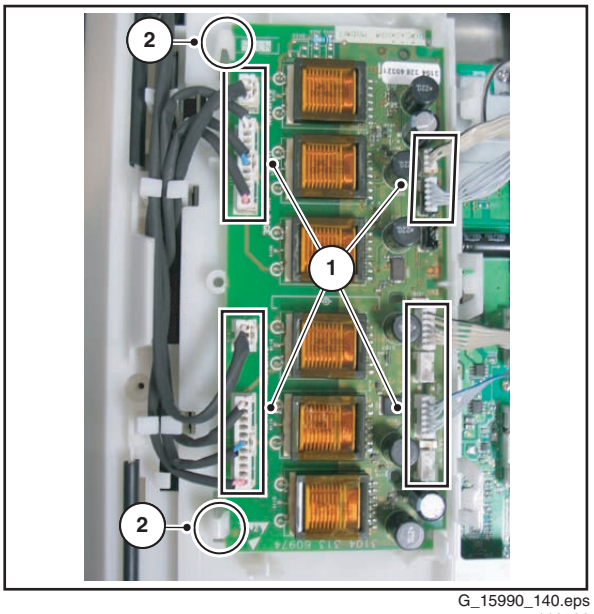


G_15990_139.eps
110506

Figure 4-56 LED/IR sensor removal

4.5.11 Ambilight Inverter Boards

1. Remove the rear cover, as described previously.
2. Remove the metal bracket, that is mounted over the Inverter Board you want to replace, as described previously.
3. Unplug connectors [1] .
4. Release clamps [2].



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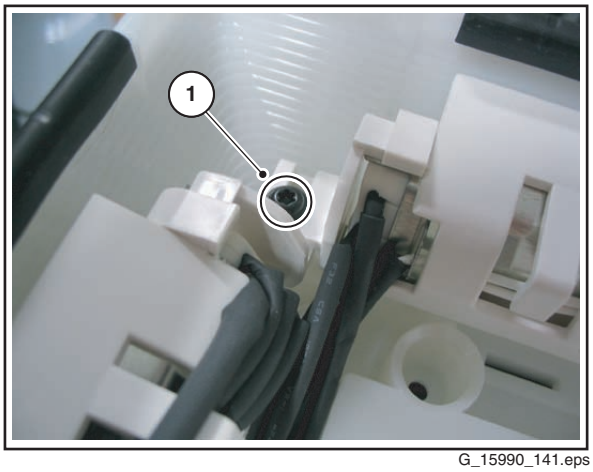
110506

Figure 4-57 Ambilight inverter board

4.5.12 Ambilight Module

1. Carry out the disassembly “LCD Display Panel”, except for the last point.
2. Put the ambilight frame on a flat workbench.
3. Remove screws [1].



G_15990_141.eps
110506

Figure 4-58 Ambilight module

4.6 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Notes:

- While re-assembling, make sure that all cables are placed and connected in their original position. See figure "Cable dressing".
- Pay special attention not to damage the EMC foams on the SSB shields. Ensure that EMC foams are mounted correctly.

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

5.1 Test Points

The chassis is equipped with test points (Fxxx) printed on the circuit board assemblies. As most signals are digital, it will be difficult to measure waveforms with a standard oscilloscope. Several key ICs are capable of generating test patterns, which can be controlled via ComPair. In this way it is possible to determine which part is defective.

Perform measurements under the following conditions:
- Service Default Mode.
- Video: Colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

5.2 Service Modes

Service Default mode (SDM) and Service Alignment Mode (SAM) offers several features for the service technician, while the Customer Service Mode (CSM) is used for communication between the call centre and the customer.

This chassis also offers the option of using ComPair, a hardware interface between a computer and the TV chassis. It offers the abilities of structured troubleshooting, error code reading, and software version read-out for all chassis. *Minimum requirements for ComPair:* a Pentium processor, a Windows OS, and a CD-ROM drive (see also paragraph "ComPair").

5.2.1 Service Default Mode (SDM)

Purpose
- To create a pre-defined setting, to get the same measurement results as given in this manual.
- To override SW protections detected by stand-by processor and make the TV start up to the step just before protection (a sort of automatic stepwise start up). See paragraph “Stepwise Start Up”.
- To override SW protections detected by Viper. Depending on the SW version it is possible that this mechanism does not work correctly. See also paragraph “Error codes”.
- To start the blinking LED procedure (not valid in protection mode).

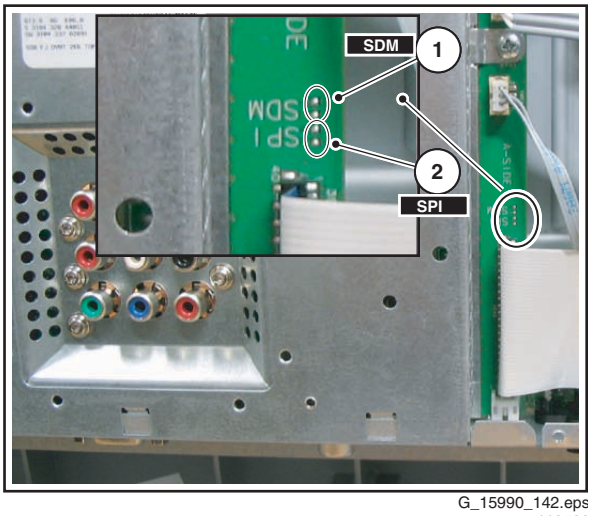
Specifications

Table 5-1 SDM default settings

Region	Freq. (MHz)	Default system
Europe, AP(PAL/Multi)	475.25	PAL B/G
Europe, AP DVBT	546.000 PID Video: 0B 06 PID PCR: 0B 06 PID Audio: 0B 07	DVBT

- All picture settings at 50% (brightness, colour, contrast).
- All sound settings at 50%, except volume at 25%.
- All service-unfriendly modes (if present) are disabled, like:
  - (Sleep) timer.
  - Child/parental lock.
  - Picture mute (blue mute or black mute).
  - Automatic volume levelling (AVL).
  - Auto switch "off" (when no video signal was received for 10 minutes).
  - Skip/blank of non-favourite pre-sets.
  - Smart modes.
  - Auto store of personal presets.
  - Auto user menu time-out.

How to Activate SDM
For DVBT TV’s there are two kinds of SDM : an analogue SDM and a digital SDM. Tuning will happen according table “SDM Default Settings”.
- Analogue SDM: use the standard RC-transmitter and key in the code “062596”, directly followed by the “MENU” button.
  Note: It is possible that, together with the SDM, the main menu will appear. To switch it "off", push the “MENU” button again.
- Digital SDM: use the standard RC-transmitter and key in the code “062593”, directly followed by the “MENU” button. Depending on the software version it is possible that the tuning will not work correctly.
  Note: It is possible that, together with the SDM, the main menu will appear. To switch it "off", push the “MENU” button again.
- Analogue SDM can also be activated by shorting for a moment the two solder pads [1] on the SSB, with the indication “SDM”. They are located outside the shielding. Activation can be performed in all modes, except when the set has a problem with the Stand-by Processor. See figure “Service mode pads”.



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110506

Figure 5-1 Service mode pads

After activating this mode, “SDM” will appear in the upper right corner of the screen (if you have picture).

How to Navigate
When you press the “MENU” button on the RC transmitter, the set will toggle between the SDM and the normal user menu (with the SDM mode still active in the background).

How to Exit SDM
Use one of the following methods:
- Switch the set to STAND-BY via the RC-transmitter.

- Via a standard customer RC-transmitter: key in “00”-sequence.

5.2.2 Service Alignment Mode (SAM)

Purpose
- To perform (software) alignments.
- To change option settings.
- To easily identify the used software version.
- To view operation hours.
- To display (or clear) the error code buffer.

How to Activate SAM
Via a standard RC transmitter: key in the code “062596” directly followed by the “INFO” button. After activating SAM with this method a service warning will appear on the screen, you can continue by pressing the red button on the RC.

Contents of SAM:
- **Hardware Info.**
  - **A. SW Version.** Displays the software version of the VIPER software (main software) (**example:** JA30E-1.2.3.4_12345 = AAAAB_X.Y.W.Z_NNNNN).
    - **AAAA**= the software name.
    - **B**= the region: A= AP, E= EU, L= LatAm, U = US. For AP sets it is possible that the Europe software version is used.
    - **X.Y.W.Z**= the software version, where X is the main version number (different numbers are not compatible with one another) and Y.W.Z is the sub version number (a higher number is always compatible with a lower number).
    - **NNNNN**= last five digits of 12nc code of the software.
  - **B. SBY PROC Version.** Displays the software version of the stand-by processor.
  - **C. Production Code**. Displays the production code of the TV, this is the serial number as printed on the back of the TV set. Note that if an NVM is replaced or is initialized after corruption, this production code has to be re-written to NVM. ComPair will foresee in a possibility to do this.
- **Operation Hours.** Displays the accumulated total of operation hours (not the stand-by hours). Every time the TV is switched "on/off", 0.5 hours is added to this number.
- **Errors.** (Followed by maximal 10 errors). The most recent error is displayed at the upper left (for an error explanation see paragraph “Error Codes”).
- **Defective Module.** Here the module that generates the error is displayed. If there are multiple errors in the buffer, which are not all generated by a single module, there is probably another defect. It will then display the message “UNKNOWN” here. Not all errors will display a defective module name.
- **Reset Error Buffer.** When you press “cursor right” and then the “OK” button, the error buffer is reset.
- **Alignments.** This will activate the “ALIGNMENTS” sub-menu.
- **Dealer Options.** Extra features for the dealers.
- **Options.** Extra features for Service. For more info regarding option codes, see chapter 8.
  Note that if you change the option code numbers, you have to confirm your changes with the “OK” button before you store the options. Otherwise you will lose your changes.
- **Initialise NVM.** When an NVM was corrupted (or replaced) in the former EMG based chassis, the microprocessor replaces the content with default data (to assure that the set can operate). However, all preferences and alignment values are gone now, and option numbers are not correct. Therefore, this was a very drastic way. In this chassis, the procedure is implemented in another way: The moment the processor recognizes a corrupted NVM, the “initialize NVM” line will be highlighted. Now, you can do two things (depending of the service instructions at that moment):
  - Save the content of the NVM via ComPair for development analysis, **before** initializing. This will give the Service department an extra possibility for diagnosis (e.g. when Development asks for this).
  - Initialize the NVM (same as in the past, however now it happens conscious).

Note: When you have a corrupted NVM, or you have replaced the NVM, there is a high possibility that you will not have picture any more because your display option is not correct. So, before you can initialize your NVM via the SAM, you need to have picture and therefore you need the correct display option. To adapt this option, you can use ComPair (the correct HEX values for the options can be found in the table below) or a method via a standard RC (described below).
Changing the display option via a standard RC:
Key in the code “062598” directly followed by the “MENU” button and “XXX” (where XXX is the 3 digit decimal display option code as mentioned in the first column of the next table). Make sure to key in all three digits, also the leading zero’s.
If the above action is successful, the front LED will go out as an indication that the RC sequence was correct.
After the display option is changed in the NVM, the TV will go to the Stand-by mode.
If the NVM was corrupted or empty before this action, it will be initialised first (loaded with default values). This initialising can take up to 20 seconds.

Table 5-2 Display option code overview

Display Option	HEX	Display Type	Display Code Number	Size	Vertical Resolution
000	00	PDP SDI HD V3	V3_SA42AX-****-Rev,2	42”	768p
001	01	PDP SDI HD V3	V3-S50HW-XD03-v0,0	50”	768p
002	02	PDP FHP	A1-FPF42C128128UC-52-v01	42”	1024i
003	03	LCD LPL	LC300W01-A3P7-v2.1	30”	768p
004	04	LCD LPL	LC370W01-A6K1-v1.0	37”	768p
005	05	LCD LPL	LC420W02-A6-v1.0	42”	768p
006	06	LCD SHARP	ASV1-LQ315T3LZ13ASV2.2	32”	768p
007	07	PDP SDI SD V3	V3_S42SD-YD05-v0.2	42”	480p
008	08	PDP FHP	A1_PFP37C128128UB-71-v0.1	37”	1024i
009	09	LCOS XION	Xion1,05-v0.01	-	720p
010	0A	LCD AUO	T296XW01-v0.5	30”	768p
011	0B	LCD LPL	LC32CW01-A6K1v1.0	32”	768p
012	0C	LCD AUO	T315XW01V0-v0.1	32”	768p
013	0D	LCD SHARP	ASV2_LQ370T3LZ21 ASV2.2LQ370T3LZ44	37”	768p
014	0E	LCD LPL full HD	LC420WU1-SL01-v0.0	42”	1080p
015	0F	PDP SDI SD		37”	480p
016	10	PDP FHP		37”	1080i
017	11	PDP FHP	tbf	42”	1080i
018	12	PDP FHP	FPF55C17196UA-51-v04	55”	768p
019	13	LCOS VENUS		-	720p
020	14	LCOS VENUS full HD		-	1080p
021	15	LCD LPL	LC260WX2-SL01-v1,0	26”	768p
022	16	LCD LPL clear LCD	LC320WX2-SL01	32”	768p
023	17	PDP LG SD	PDP42x2-56-Rev.00	42”	480p
024	18	PDP SDI V4	V4-S42SD-YD07-v0.0	42”	480p
025	19	PDP SDI V4	V4-S42AX-YD01-Rev0.1	42”	768p
026	1A	PDP FHP A2	FPF42C128128UD-51	42”	1024i
027	1B	PDP SDI HD V4	V4-S50HW-XD04-v0.2	50”	768p
028	1C	LCD Sharp full HD	LQ370D3LZ1x ASV2.2	37”	1080p
029	1D	LCD AUO	T315XW01-V3-V0.1	32”	768p
030	1E	for development sample only	LW370D3LZ1xASV3.0 (first sample)		

Display Option	HEX	Display Type	Display Code Number	Size	Vertical Resolution
031	1F	LCD Sharp full HD clear LCD V3.0	LQ370D3LZ1x ASV3.0	37"	1080p
032	20	LCD LPL	LC200WX1-SL01	20"	768p
033	21	LCD QDI	QD23HL	23"	768p
034	22	ECO PTV		51"	1080i
035	23	ECO PTV		55"	1080i
036	24	ECO PTV		61"	1080i
037	25	PDP FHP A3	FPF42128135UA	42"	1024i
038	26	DLP	tbf	50"	720p
039	27	DLP	tbf	60"	720p
040	28	LCD Sharp V2.3	ASV 2.3	32"	768p
041	29	LCD LPL clear LCD	LC420WX2-SLA1	42"	768p
042	2A	PDP SDI V4		63"	768p
043	2B	LCD Sharp V3.0 clear LCD		37"	768p
044	2C	LCD Sharp V2.3		37"	768p
045	2D	LCD LPL		26"	768p
046	2E	LCD LPL		32"	768p

- **Store.** All options and alignments are stored when pressing "cursor right" and then the "OK"-button
- **SW Maintenance.**
  - **SW Events.** Not useful for Service purposes. In case of specific software problems, the development department can ask for this info.
  - **HW Events.** Not useful for Service purposes. In case of specific software problems, the development department can ask for this info.

- **Operating hours.** Here you are able to reset the operations hours of the display. This has to be done in case of replacement of the display.
- **Upload to USB.** Here you are able to upload several settings from the TV to a USB stick which is connected to the Side IO. The four items are "Channel list", "Personal settings", "Option codes" and "Display-related alignments". First you have to create a directory "repair\" in the root of the USB stick.To upload the settings you have to select each item separately, press "cursor right", confirm with "OK" and wait until "Done" appears. Now the settings are stored onto your USB stick and can be used to download onto another TV or other SSB. Uploading is of course only possible if the software is running and if you have picture. This method is created to be able to save the customer's TV settings and to store them into another SSB.
- **Download from USB.** Here you are able to download several settings from the USB stick to the TV. Same way of working as with uploading. To make sure that the download of the channel list from USB to the TV is executed properly, it is necessary to restart the TV and tune to a valid preset if necessary.

How to Navigate
- In SAM, you can select the menu items with the "CURSOR UP/DOWN" key on the RC-transmitter. The selected item will be highlighted. When not all menu items fit on the screen, move the "CURSOR UP/DOWN" key to display the next/previous menu items.
- With the "CURSOR LEFT/RIGHT" keys, it is possible to:
  - (De) activate the selected menu item.
  - (De) activate the selected sub menu.
- With the "OK" key, it is possible to activate the selected action.

How to Exit SAM
Use one of the following methods:
- Press the "MENU" button on the RC-transmitter.
- Switch the set to STAND-BY via the RC-transmitter.

5.2.3 Customer Service Mode (CSM)

Purpose
When a customer is having problems with his TV-set, he can call his dealer or the Customer Helpdesk. The service technician can then ask the customer to activate the CSM, in order to identify the status of the set. Now, the service technician can judge the severity of the complaint. In many cases, he can advise the customer how to solve the problem, or he can decide if it is necessary to visit the customer.
The CSM is a read only mode; therefore, modifications in this mode are not possible.

When in this chassis, CSM is activated, a colour bar test pattern will be visible for 5 seconds. This test pattern is generated by the Pacific3. So if you see this test pattern you can determine that the back end video chain (Pacific3, LVDS and display) is working.
Also new in this chassis: when you activate CSM and there is a USB stick connected to the TV, the software will dump the complete CSM content to the USB stick. The file (Csm.txt) will be saved in the root of your USB stick. This info can be handy if you don't have picture.

How to Activate CSM
Key in the code "123654" via the standard RC transmitter.

Note: Activation of the CSM is only possible if there is no (user) menu on the screen!

How to Navigate
By means of the "CURSOR-DOWN/UP" knob on the RC-transmitter, you can navigate through the menus.

Contents of CSM
- **Set Type.** This information is very helpful for a helpdesk/ workshop as reference for further diagnosis. In this way, it is not necessary for the customer to look at the rear of the TV-set. Note that if an NVM is replaced or is initialized after corruption, this set type has to be re-written to NVM. ComPair will foresee a possibility to do this.
- **Production Code.** Displays the production code (the serial number) of the TV. Note that if an NVM is replaced or is initialized after corruption, this production code has to be re-written to NVM. ComPair will foresee a possibility to do this.
- **Code 1.** Gives the latest five errors of the error buffer. As soon as the built-in diagnose software has detected an error the buffer is adapted. The last occurred error is displayed on the leftmost position. Each error code is displayed as a 2-digit number. When less than 10 errors occur, the rest of the buffer is empty (00). See also paragraph Error Codes for a description.
- **Code 2.** Gives the first five errors of the error buffer. See also paragraph Error Codes for a description.
- **Options 1.** Gives the option codes of option group 1 as set in SAM (Service Alignment Mode).
- **Options 2.** Gives the option codes of option group 2 as set in SAM (Service Alignment Mode).
- **12NC SSB.** Gives an identification of the SSB as stored in NVM. Note that if an NVM is replaced or is initialized after corruption, this identification number has to be re-written to NVM. ComPair will foresee a possibility to do this.
  This identification number consists of 14 characters and is built up as follows:
  - 8 last characters of the 12NC of the SSB itself.
  - the serial number of the SSB, which consists of 6 digits.
  Both can be found on a sticker on the PWB of the SSB itself (**not** on the sticker on the outside of the shielding!). The format of the identification number is then as follows:
  <last 8 characters of 12NC of SSB><serial number of SSB> (total 14 characters).
- **Digital Natural Motion.** Gives the last status of the Digital Natural Motion setting, as set by the customer. Possible

values are “Off”, “Minimum” and “Maximum”. See DFU on how to change this item.
- **Pixel Plus.** Gives the last status of the Pixel Plus setting, as set by the customer. Possible values are “On” and “Off”. See DFU on how to change this item.
- **DNR.** Gives the last status of the DNR setting, as set by the customer. Possible values are “Off”, “Minimum”, “Medium” and “Maximum”. See DFU on how to change this item.
- **Noise Figure.** Gives the noise ratio for the selected transmitter. This value can vary from 0 (good signal) to 127 (average signal) and to 255 (bad signal). For some software versions, the noise figure will only be valid when “Active Control” is set to “medium” or “maximum” before activating CSM. Noise figure is not applicable for DVBT channels.
- **Headphone Volume.** Gives the last status of the headphone volume, as set by the customer. The value can vary from 0 (volume is minimum) to 100 (volume is maximum). See DFU on how to change this item.
- **Dolby.** Indicates whether the received transmitter transmits Dolby sound (“ON”) or not (“OFF”). Attention: The presence of Dolby can only be tested by the software on the Dolby Signalling bit. If a Dolby transmission is received without a Dolby Signalling bit, this indicator will show “OFF” even though a Dolby transmission is received.
- **Surround Mode.** Indicates the by the customer selected sound mode (or automatically chosen mode). Possible values are “STEREO” and “VIRTUAL DOLBY SURROUND”. It can also have been selected automatically by signalling bits (internal software). See DFU on how to change this item.
- **Centre Input.** Not applicable for this chassis.
- **Audio System.** Gives information about the audible audio system. Possible values are “Stereo”, ”Mono”, “Mono selected”, “Dual I”, “Dual II”, “Nicam Stereo”, “Nicam mono”, Nicam dual I”, “Nicam dual II”, “Nicam available”, “Analog In: No Dig. Audio”, “Dolby Digital 1+1”, “Dolby Digital 1/0”, “Dolby Digital 2/0”, “Dolby Digital 2/1”, “Dolby Digital 2/2”, “Dolby Digital 3/0”, “Dolby Digital 3/1”, “Dolby Digital 3/2”, “Dolby Digital Dual I”, “Dolby Digital Dual II”, “MPEG 1+1”, “MPEG 1/0”, “MPEG 2/0” and “Not supported signal”. This is the same info as you will see when pressing the “INFO” button in normal user mode (item “Sound”). When the audio is muted, there will be no info displayed.
- **AVL.** Indicates the last status of AVL (Automatic Volume Level) as set by the customer: See DFU on how to change this item.
- **Delta Volume.** Indicates the last status of the delta volume for the selected preset as set by the customer: from “-12” to “+12”. See DFU on how to change this item..
- **Preset Lock.** Indicates if the selected preset has a child lock: “LOCKED” or “UNLOCKED”. See DFU on how to change this item..
- **Child lock.** Indicates if “Child lock” is set to “UNLOCK”, “LOCKED” or “CUSTOM LOCK. See DFU on how to change this item..
- **Lock after.** Indicates at what time the channel lock is set: “OFF” or e.g. “18:45” (lock time). See DFU on how to change this item.
- **Parental rating lock.** Gives the last status of the parental rating lock as set by the customer. See DFU on how to change this item.
- **Parental rating status.** Gives the value of the parental rating status as sent by the current preset.
- **TV ratings lock.** Only applicable for US.
- **Movie ratings lock.** Only applicable for US.
- **V-Chip TV status.** Only applicable for US.
- **V-Chip movie status.** Only applicable for US.
- **Region rating status (RRT).** Only applicable for US.
- **On timer.** Indicates if the “On timer” is set “ON” or “OFF” and when it is set to “ON”, also start time, start day and program number is displayed. See DFU on how to change this item.
- **Location.** Gives the last status of the location setting as set via the installation menu. Possible values are “Shop” and “Home”. If the location is set to “Shop”, several settings are fixed. So for a customer location must be set to “Home”. Can be changed via the installation menu (see also DFU).
- **HDMI key validity.** Indicates if the HDMI keys (or HDCP keys) are valid or not. In case these keys are not valid and the customer wants to make use of the HDMI functionality, the SSB has to be replaced.
- **IEEE key validity.** Not applicable.
- **POD key validity.** Not applicable.
- **Tuner Frequency.** Indicates the frequency the selected transmitter is tuned to.
- **TV System.** Gives information about the video system of the selected transmitter. In case a DVBT signal is received this item will also show ATSC.
  - BG: PAL BG signal received
  - DK: PAL DK signal received
  - L/La: SECAM L/La signal received
  - I: PAL I signal received
  - M: NTSC M signal received
  - ATSC: ATSC or DVBT signal received

- **Source.** Indicates which source is used and the video quality of the selected source. (Example: Tuner, Video) Source: “TUNER”, “EXT1”, “EXT2”, “EXT3”, “EXT4”, “YPbPr1”, “YPbPr2”, “VGA”, “DVI-I”, ““HDMI 1”, “HDMI 2”, “SIDE” and “DVI”. Video signal quality: “VIDEO”, “S-VIDEO”, “RGB 1FH”, “YUV”, “VGA”, “SVGA”, “XGA”, “CVBS”, Y/C”, “YPBPR 1FH 480p”, “YPBPR 1FH 576p”, “YPBPR 1FH 1080I”, “YPBPR 2FH 480p”, “YPBPR 2FH 576p”, “YPBPR 2FH 1080i”, “RGB 2FH 480p”, “RGB 2FH 576p”, “RGB 2FH 1080i”, “720p” or “Unsupported”.
- **Tuned Bit.** Due to the DVBT architectural setup this item does not give useful information any more.
- **Digital signal modulation.** No useful information for Service purposes.
- **12NC one zip SW.** Displays the 12NC number of the one-zip file as it is used for programming software in production. In this one-zip file all below software version can be found.
- **Initial main SW.** Displays the main software version which was initially loaded by the factory.
- **Current main SW.** Displays the built-in main software version. In case of field problems related to software, software can be upgraded. As this software is consumer upgradable, it will also be published on the Internet. Example: BX31E_1.2.3.4.
- **Flash utils SW.** Displays the software version of the software which contains all necessary components of the download application. To program this software, EJTAG tooling is needed. Example: FLASH_1.1.0.0.
- **Standby SW.** Displays the built-in stand-by processor software version. Upgrading this software will be possible via ComPair or via USB.(see chapter Software upgrade). Example: STDBY_3.0.1.2.
- **MOP SW.** Displays the MOP software version in case there is a MOP present.
- **Pacific 3 Flash SW.** Displays the Pacific 3 software version.
- **NVM version.** Displays the NVM version as programmed by factory.

How to Exit CSM
Press “MENU” on the RC-transmitter.

5.2.4 Service Mode of Converter Boards for Ambi Light

Purpose
To switch on the lamps manually in case I^2C-bus triggering fails.

The Service Mode can be activated by disconnecting connectors 1M59 and 1M49 and then by shorting for a moment the two solder pads [1] on the Ambi Light Inverter Panel. See figure “Service Mode pads”.

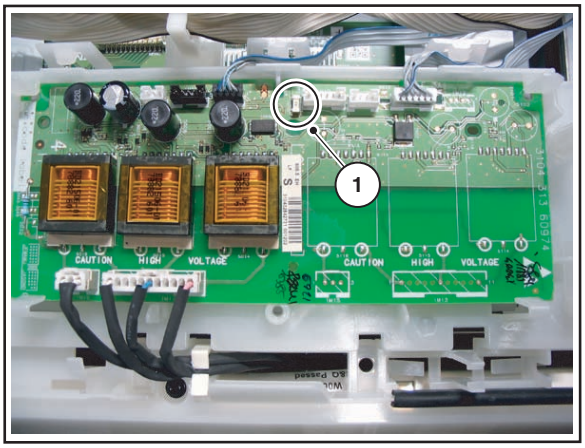

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Figure 5-2 Service Mode pads AmbiLight panel

In this chassis, both single and double fitted boards can be used. The double fitted boards are used in sets with 3 or 4 sided Ambi Light units whereas the single fitted boards are used in sets with 2 sided Ambi Light units. A double fitted board can drive 2 lamp units (6 lamps) and a single fitted board can drive 1 lamp unit (3 lamps).

The double fitted boards are supplied by +12Va and +12Vb.
The microprocessor is supplied by +12Va.
Therefore, if only +12Va is available, lamp unit B will not work.
See figure “Building blocks of Converter Board” for details.

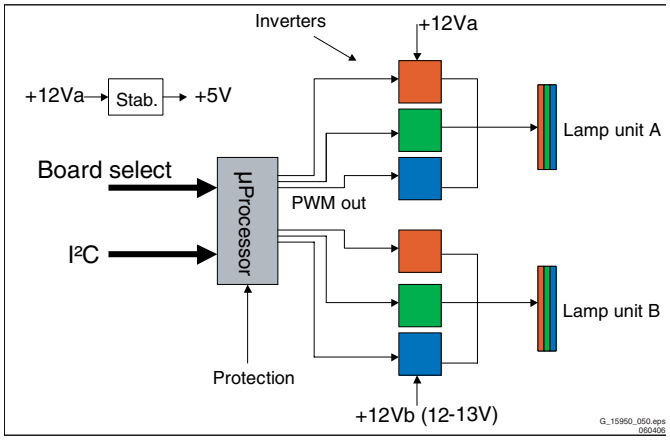


Figure 5-3 Building blocks of Converter Board

The microprocessor performs the following tasks:
- Dimming of Ambi Light by means of PWM.
- Translation of I²C-bus commands to PWM.
- Switches the Ambi Light board to protection if needed (in case of protection only the lamps switch off, no set protection is triggered).

There are two ways of protection: parallel arcing protection and serial arcing protection.
Parallel arcing protection is performed by sensing the switching frequency. In case of short circuit of the transformer output, this frequency > 100 kHz and the board goes into protection.
Serial arcing protection is performed by detection of arc in ground wire of the lamp units. In this case, the protection pulse is transmitted via an opto-coupler.
Protection can be disabled by short-circuiting diode 6112 or capacitor 2173 or by connecting pin 8 of the microprocessor to ground.

Repair Tips
In case only one or no lamp unit at all works, probably the +12Vb (12 - 13 V) is not available or the fuse is broken. Check for broken MOSFETS or check if they are switched off properly by the transistors connected to the PWM outputs of the microprocessor.

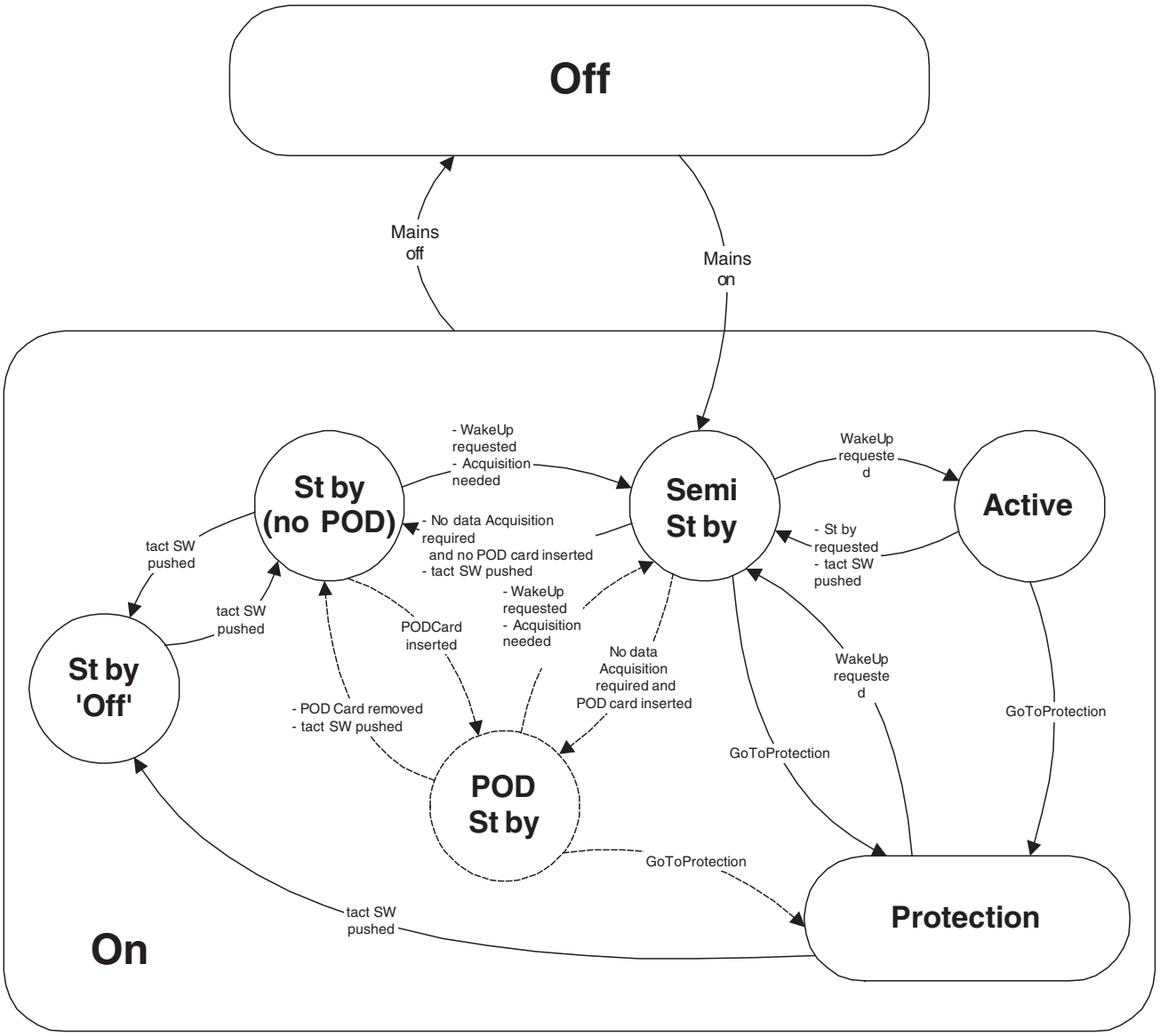
In case the Ambi Light switches off after two seconds, serial arcing or parallel arcing protection is active. Serial arcing protection can be excluded by disconnecting the opto-coupler; check for bad solder joints on transformer or lamp units. Parallel arcing protection can be disabled by grounding pin 8 of the microprocessor. Usually the switching frequency (normally 63 kHz) will then be too high. Possible causes are one MOSFET of the converter has no gate drive or is broken, or there is a short-circuit of the output of the transformer.

5.3 Stepwise Start-up

The stepwise start-up method, as known from FTL/FTP sets (EMG based sets) is not valid any more. There are two possible situation: one for protections detected by standby software and one for protections detected by main software.
When the TV is in a protection state due to an error detected by standby software (and thus blinking an error) **and** SDM is activated via shortcutting the pins on the SSB, the TV starts up until it reaches the situation just before protection. So, this is a kind of automatic stepwise start-up. In combination with the start-up diagrams below, you can see which supplies are present at a certain moment. Important to know here is, that if e.g. the 3V3 detection fails (and thus error 11 is blinking) **and** the TV is restarted via SDM, the Stand-by Processor will enable the 3V3, but will not go to protection now. The TV will stay in this situation until it is reset (Mains/AC Power supply interrupted).
When the TV is in protection state due to an error detected by main software (Viper protection) **and** SDM is activated via shortcutting the pins on the SSB, the TV starts up and ignores the error. Due to architectural reasons it is possible that the TV will end up in an undefined state (e.g. when the fast I²C bus is blocked). In this case diagnose has to be done via ComPair.

The abbreviations “SP” and “MP” in the figures stand for:
- SP: protection or error detected by the **S**tand-by **P**rocessor.
- MP: protection or error detected by the VIPER **M**ain **P**rocessor.

In the next transition diagrams for “POD” should be read “Common Interface (CI)”. For analogue sets, any reference to “POD” should be neglected.



The protection state is hardware wise identical to the standby state but has other, limited wake up reasons.

The POD st-by mode is currently not used in a Full Jaguar (FJ) environment since all US products use the Baby Jaguar (BJ) platform and a POD st-by mode is of no use in a non US environment.

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120506

Figure 5-4 Transition diagram

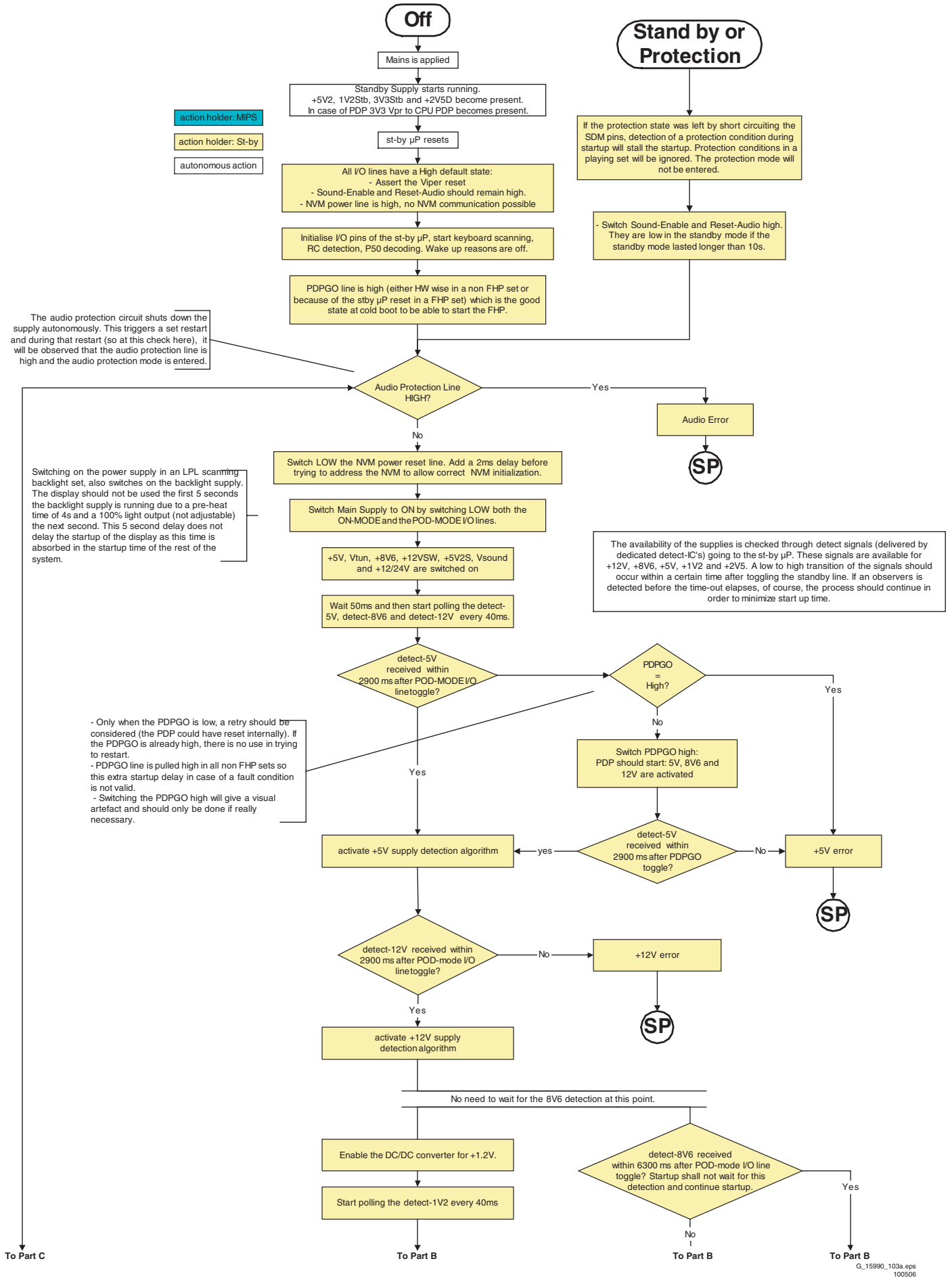


Figure 5-5 "Off" to "Semi Stand-by" flowchart (part 1)

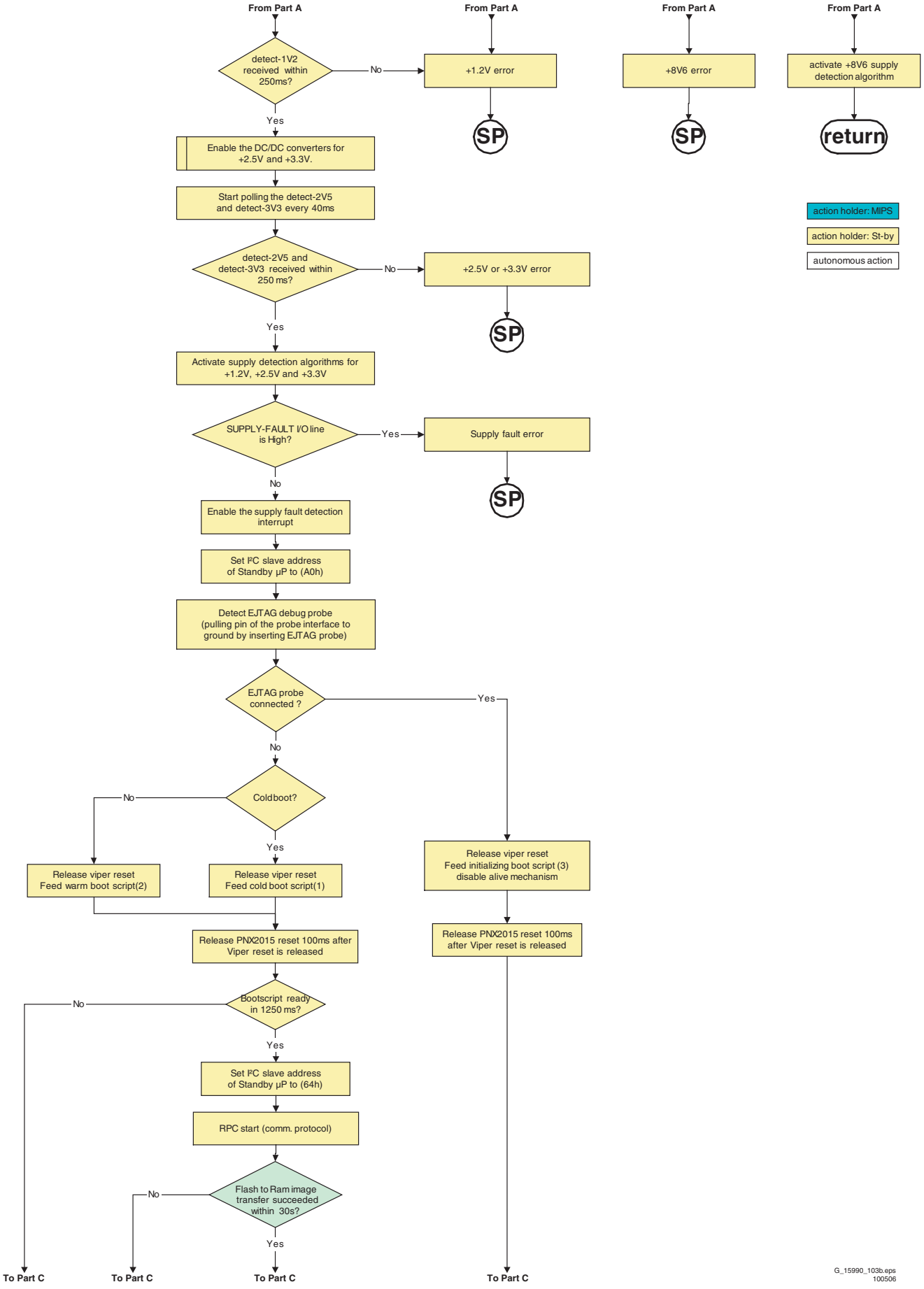


Figure 5-6 “Off” to “Semi Stand-by” flowchart (part 2)

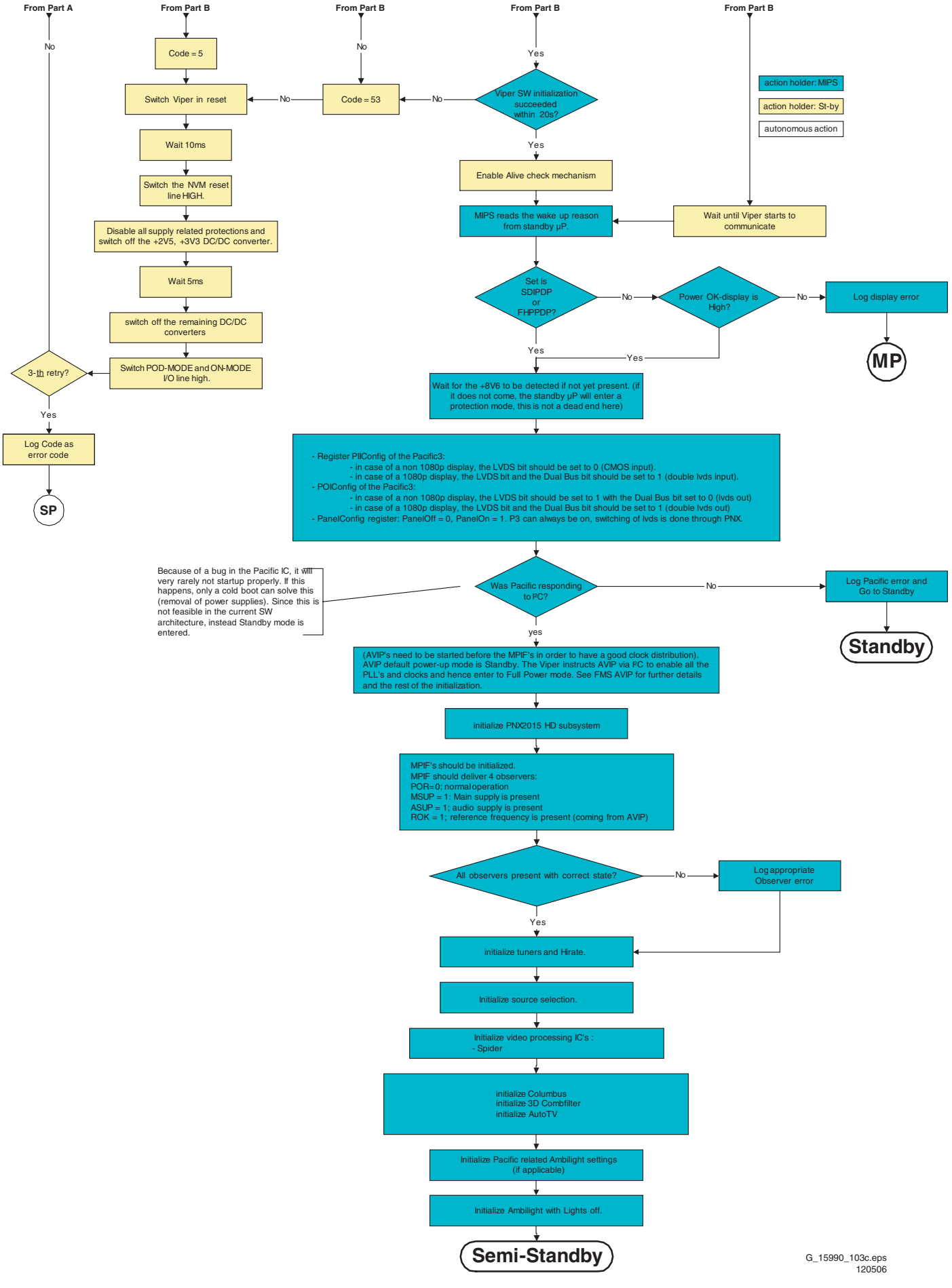


Figure 5-7 "Off" to "Semi Stand-by" flowchart (part 3)

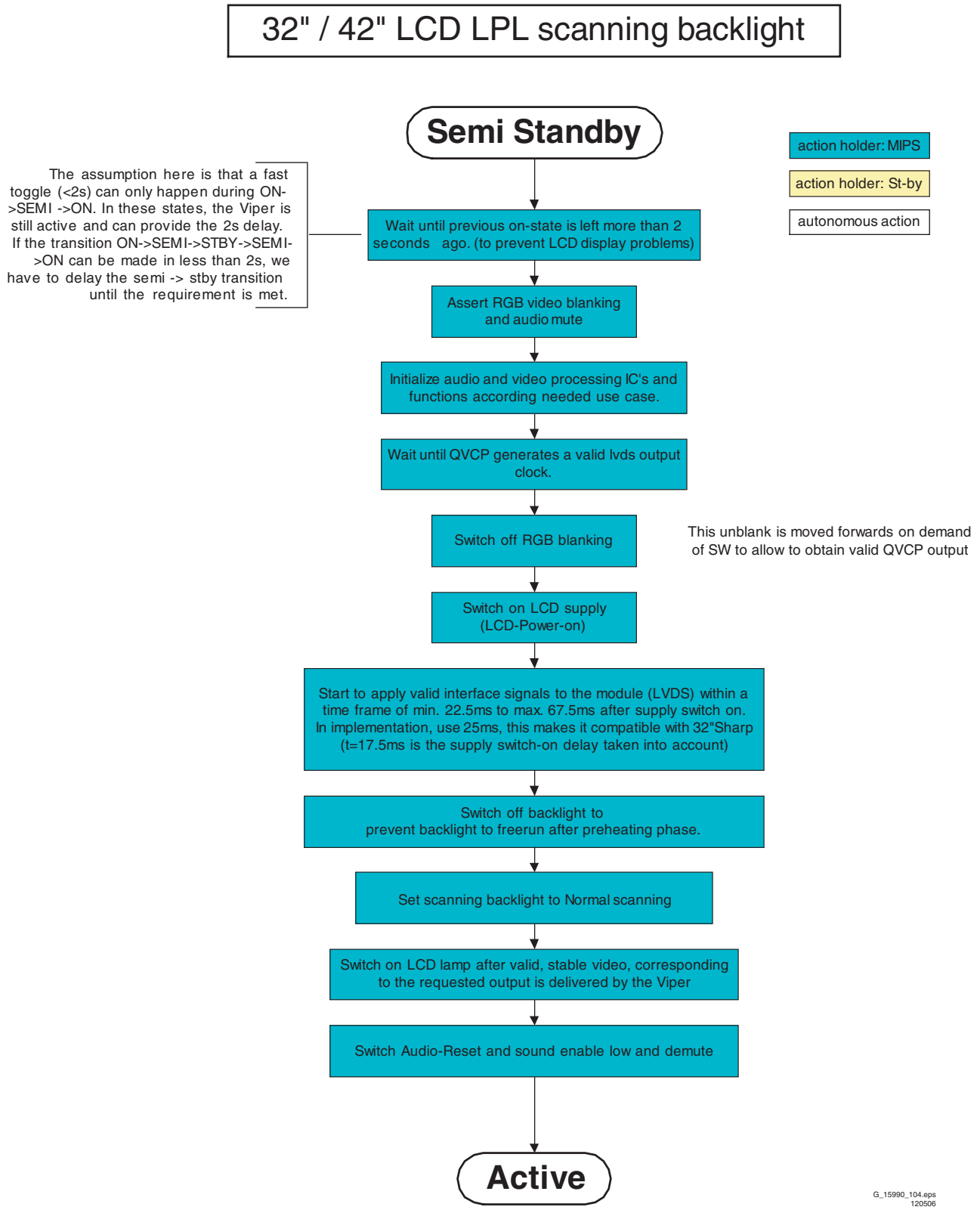


Figure 5-8 “Semi Stand-by” to “Active” flowchart 32” & 42” LCD LPL scanning backlight display

37" Clear LCD HD SHARP

Constraints taken into account:
- Display may only be started when valid QVCP output clock can be delivered by the Viper.
- Between 10 and 20 ms after power is supplied, display should receive valid lvds clock.
- minimum wait time to switch on the lamp after power up is 200ms.
- RGB (on QVCP output) may be unblanked before valid output is available. Unblanking of the picture happens with the use of the 'lamp on', not with the RGB. By doing so, black level differences during startup are avoided.

Setup:
- The Pacific which is driving the LVDS transmitter will also handle the startup of the display supply (LCD-power-online).
- The Viper can trigger the display startup or shutdown through the Pacific command "PanelConfig.PanelOn".

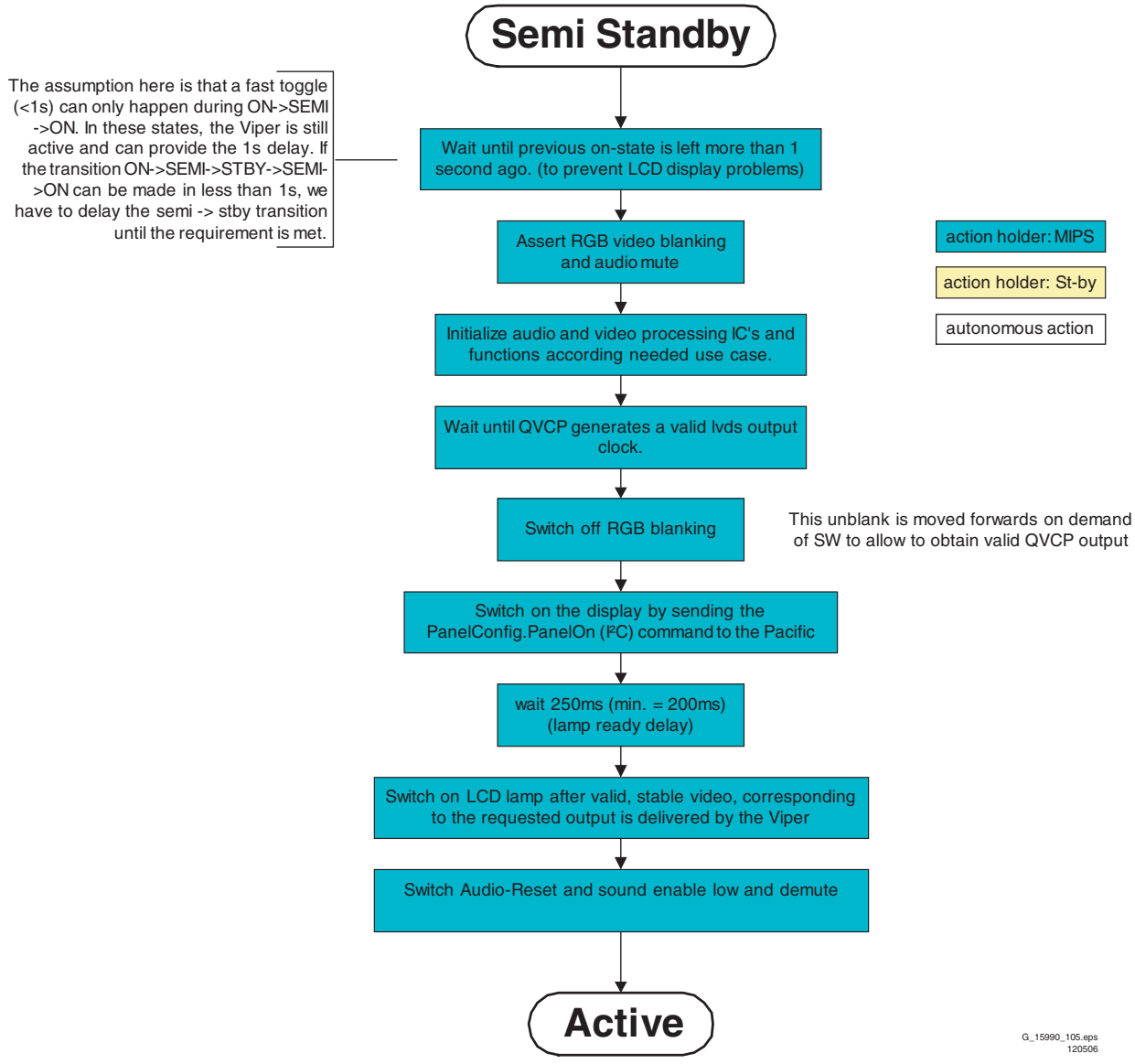


Figure 5-9 "Semi Stand-by" to "Active" flowchart 37" Clear LCD HD SHARP display

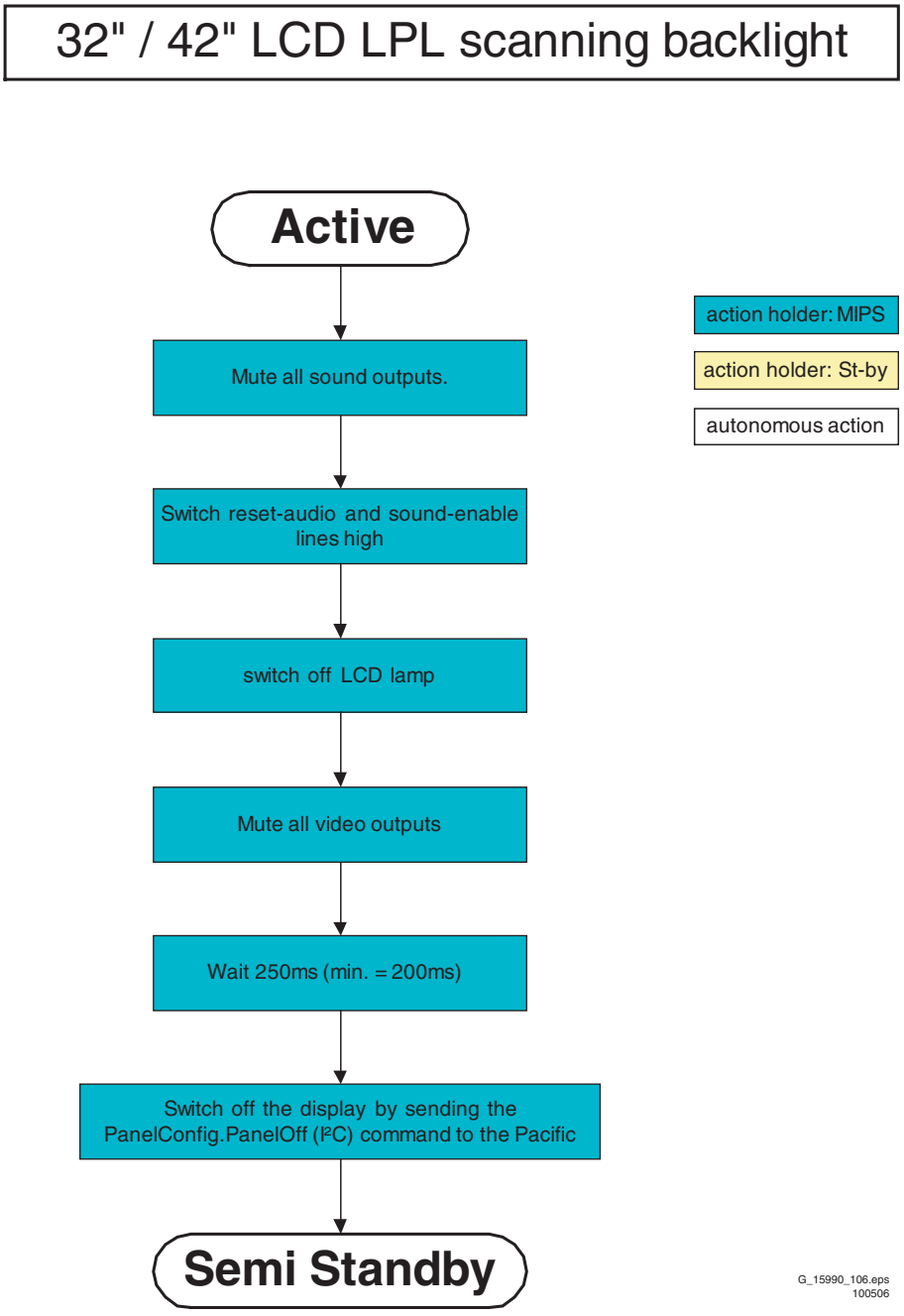


Figure 5-10 “Active” to “Semi Stand-by” flowchart 32” & 42” LCD LPL scanning backlight

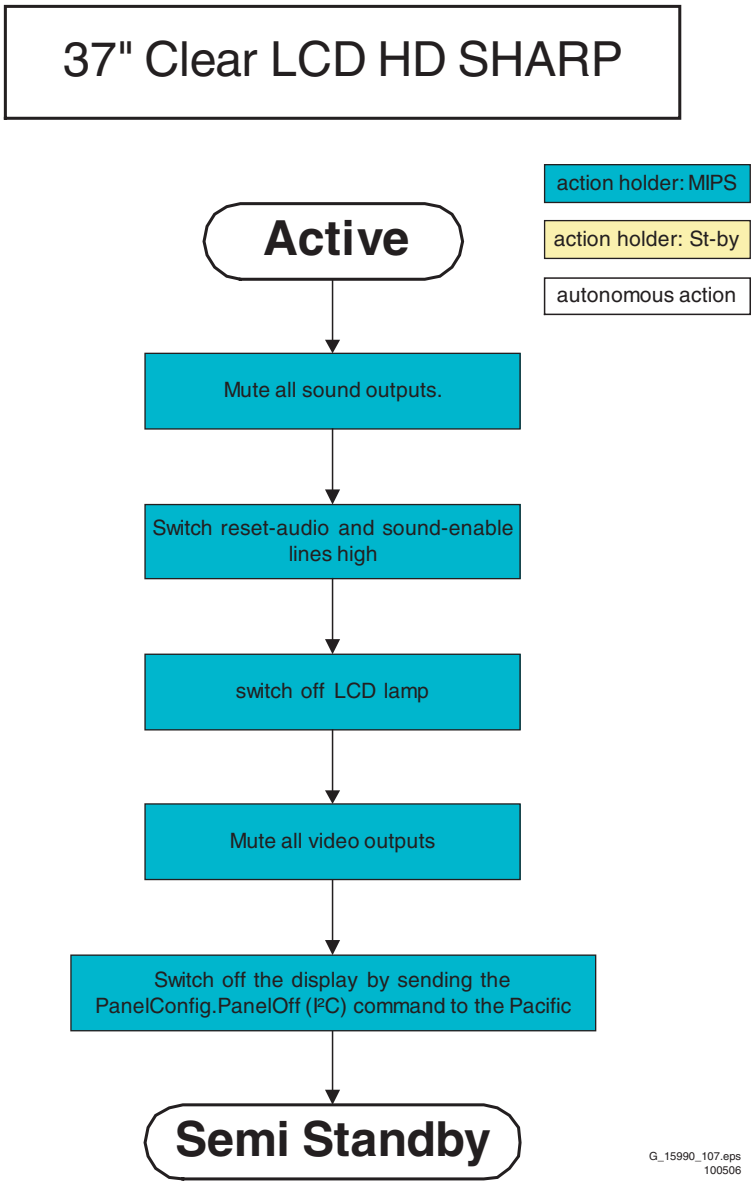


Figure 5-11 “Active” to “Semi Stand-by” flowchart 37” Clear LCD HD SHARP display

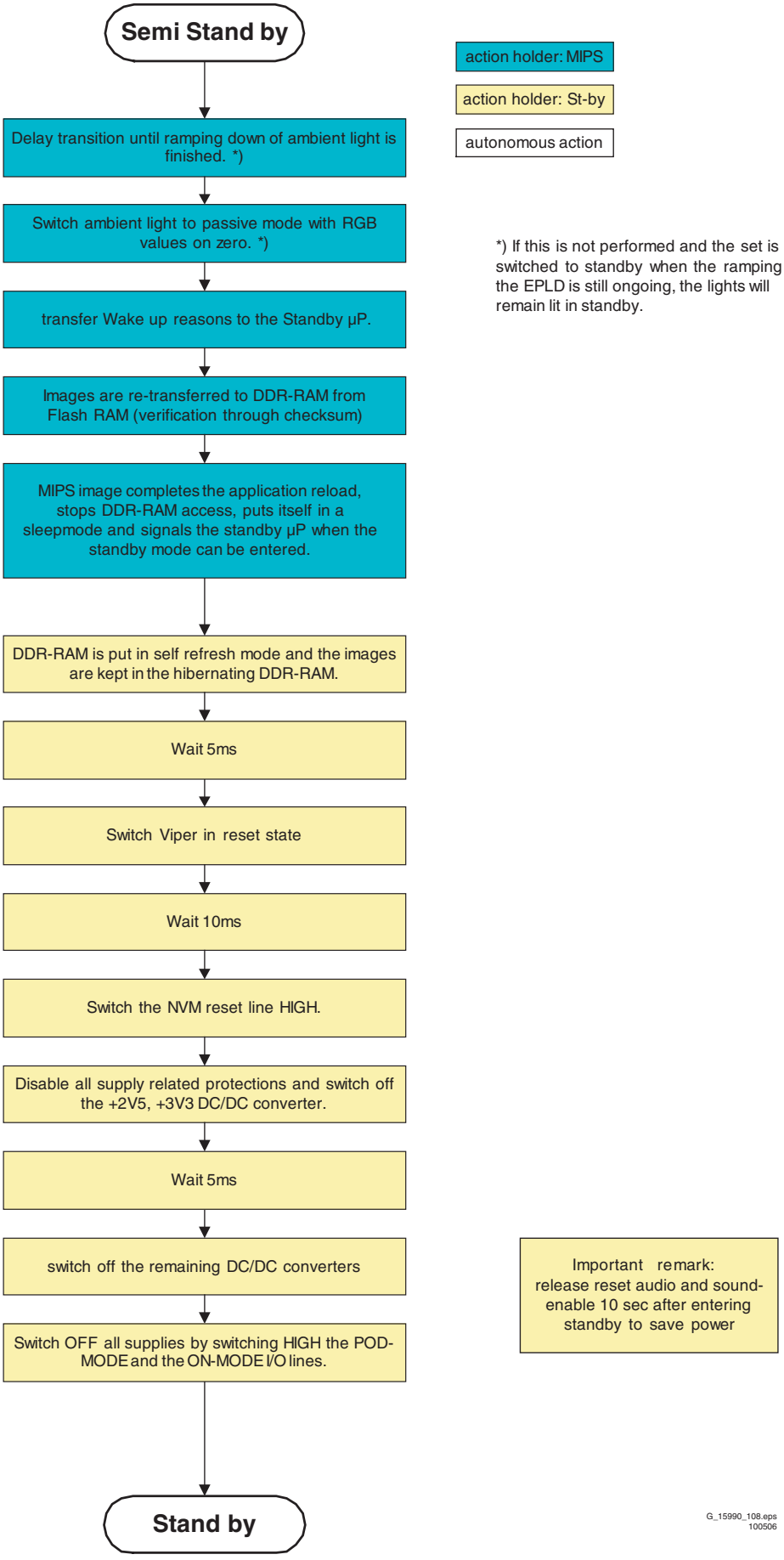


Figure 5-12 "Semi Stand-by" to "Stand-by" flowchart

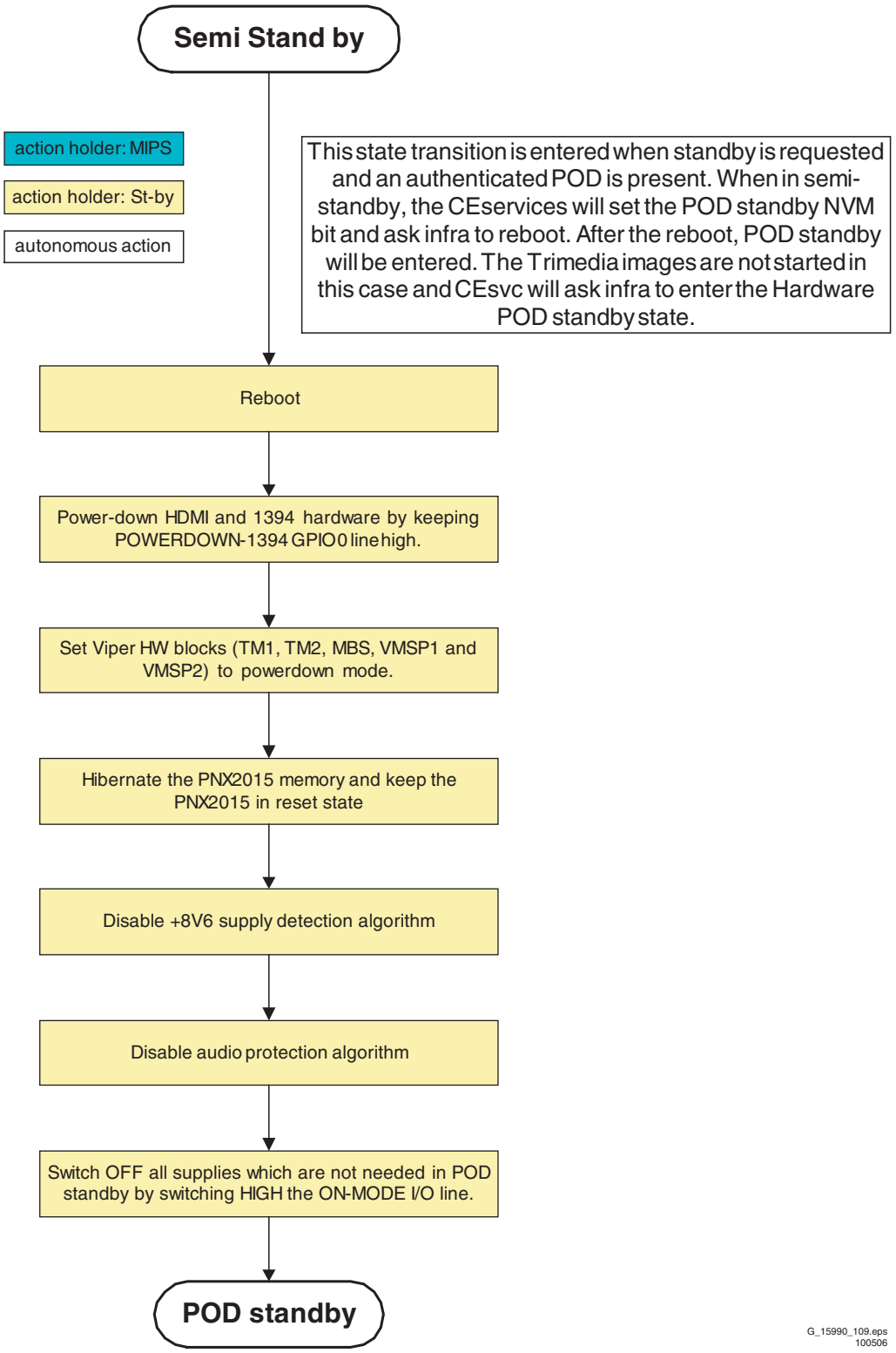


Figure 5-13 “Semi Stand-by” to “POD Stand-by” flowchart

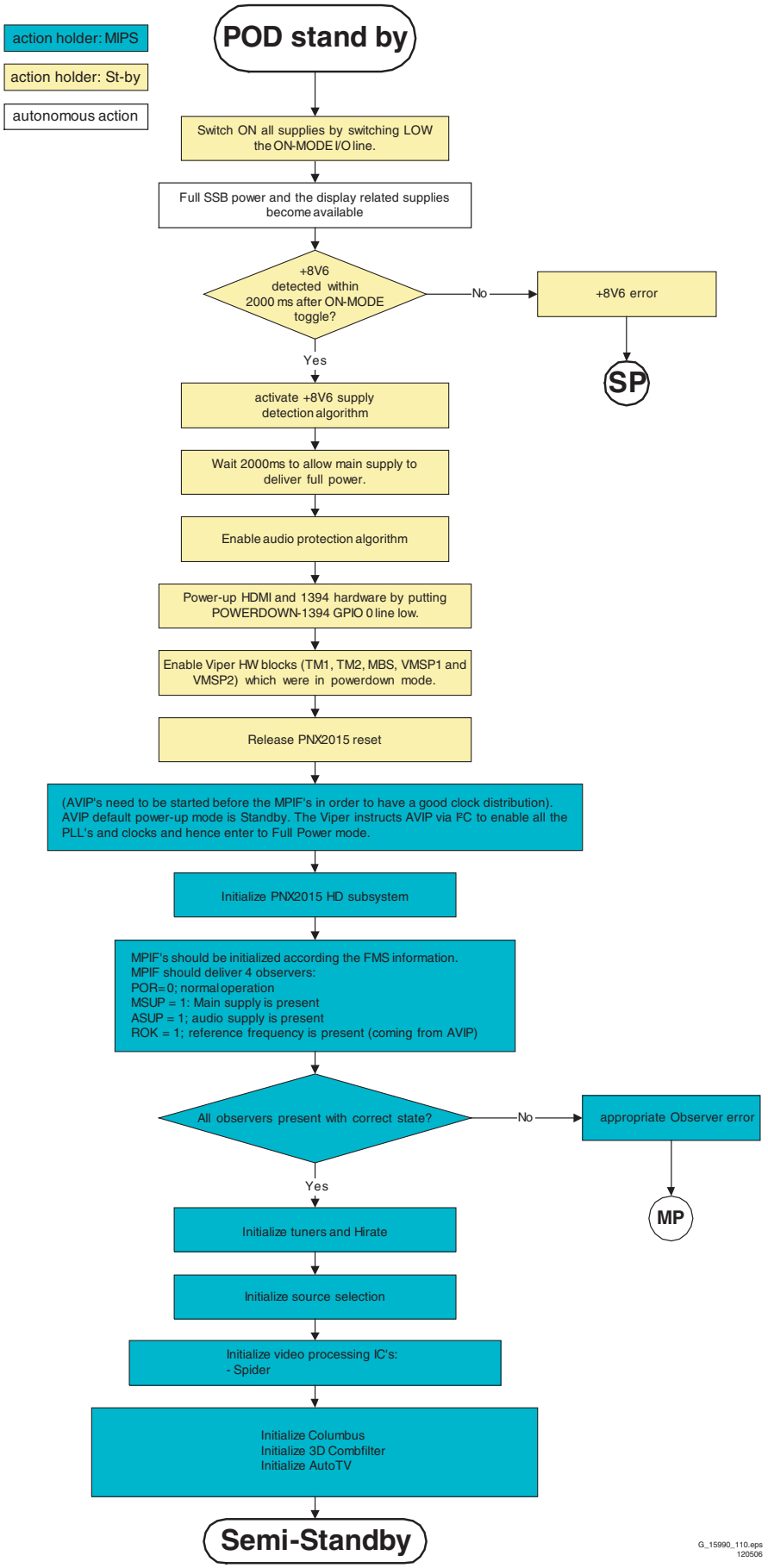


Figure 5-14 “POD Stand-by” to “Semi Stand-by” flowchart

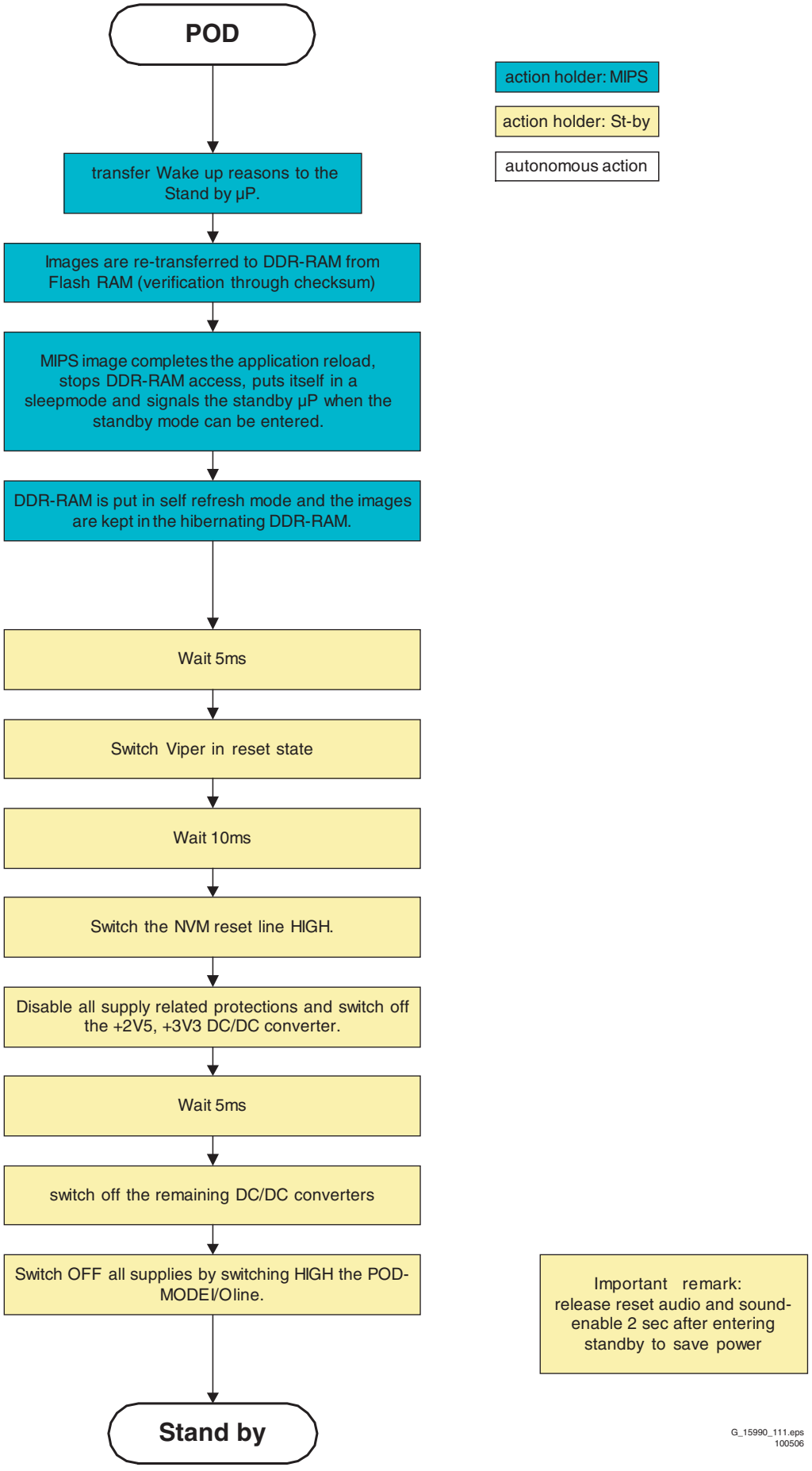


Figure 5-15 “POD” to “Stand-by” flowchart

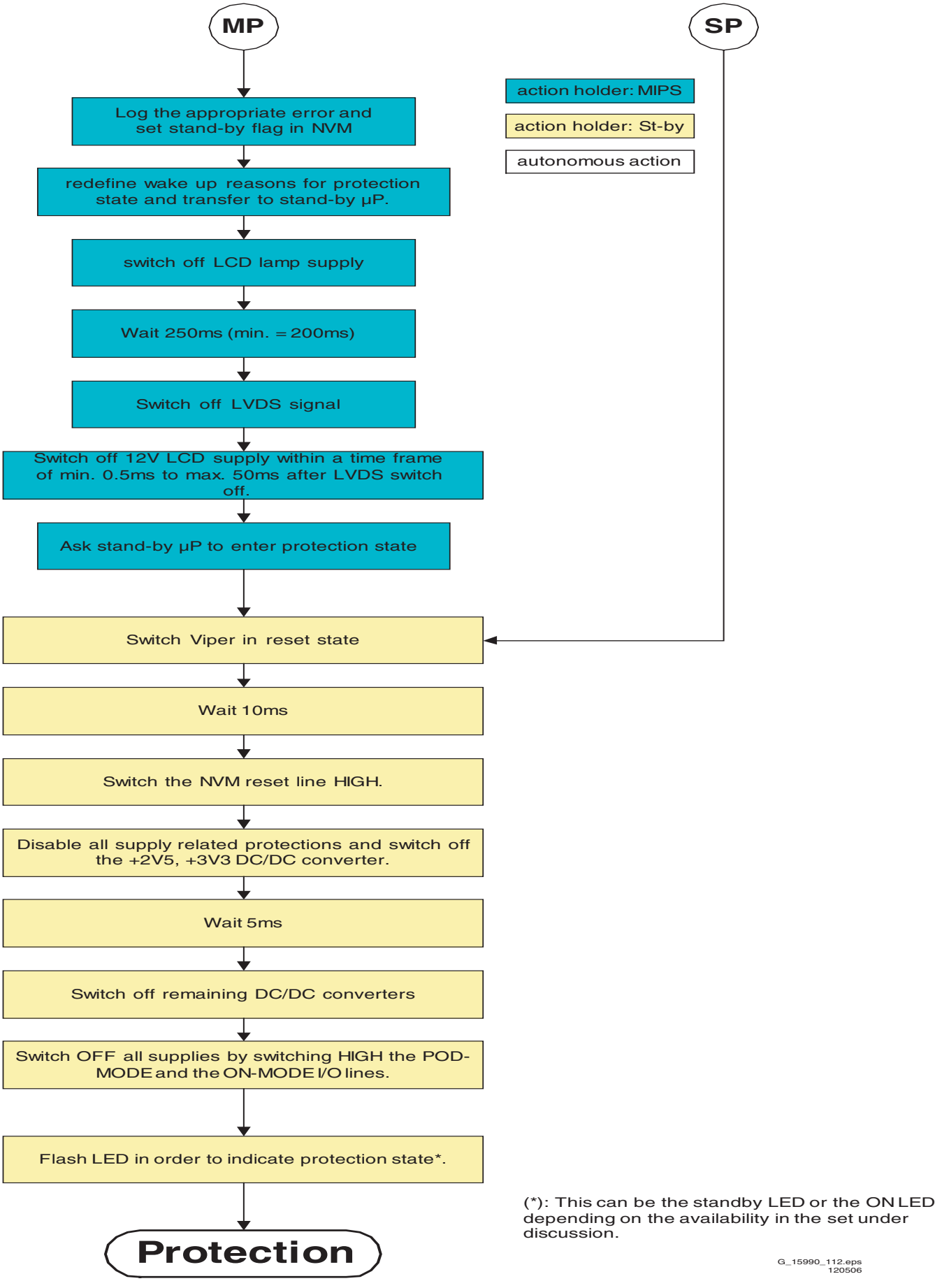


Figure 5-16 “Protection” flowchart

5.4 Service Tools

5.4.1 ComPair

Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:

1. ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
2. ComPair allows very detailed diagnostics (on I^2C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I^2C commands yourself because ComPair takes care of this.
3. ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the Force/SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial (or RS-232) cable.
For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector(s).

The ComPair fault finding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:

- Automatically (by communicating with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I^2C/UART level. ComPair can access the I^2C/UART bus of the television. ComPair can send and receive I^2C/UART commands to the microcontroller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I^2C/UART buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the microcontroller of the television is working correctly and only to a certain extent. When this is not the case, ComPair will guide you through the fault finding tree by asking you questions *(e.g. Does the screen give a picture? Click on the correct answer: YES / NO)* and showing you examples *(e.g. Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope)*. You can answer by clicking on a link *(e.g. text or a waveform picture)* that will bring you to the next step in the fault finding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

How to Connect

This is described in the chassis fault finding database in ComPair.

Caution: It is compulsory to connect the TV to the PC as shown in the picture below (with the ComPair interface in between), as the ComPair interface acts as a level shifter. If one connects the TV directly to the PC (via UART), ICs will be blown!

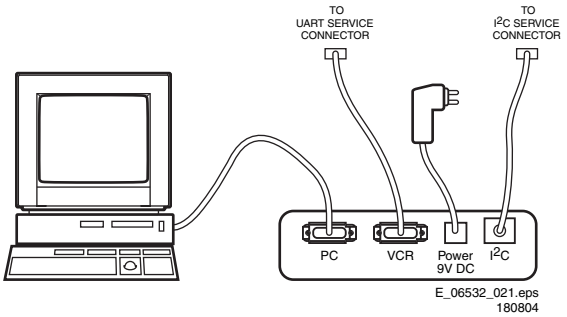


Figure 5-17 ComPair interface connection

How to Order

ComPair order codes (EU/AP/LATAM):

- Starter kit ComPair32/SearchMan32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excl. transformer): 4822 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 785 60050.
- ComPair32 CD (update): 3122 785 60070 (year 2002), 3122 785 60110 (year 2003 onwards).
- SearchMan32 CD (update): 3122 785 60080 (year 2002), 3122 785 60120 (year 2003), 3122 785 60130 (year 2004).
- ComPair firmware upgrade IC: 3122 785 90510.
- Transformer (non-UK): 4822 727 21632.
- Transformer (UK): 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630.

ComPair order codes (US):

- ComPair Software: ST4191.
- ComPair Interface Box: 4822 727 21631.
- AC Adapter: T405-ND.
- ComPair Quick Start Guide: ST4190.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630.

Note: If you encounter any problems, contact your local support desk.

5.4.2 LVDS Tool

Introduction

This service tool (also called “ComPair Assistant 1“) may help you to identify, in case the TV does not show any picture, whether the Small Signal Board (SSB) **or** the display of a Flat TV is defective.
Furthermore it is possible to program EPLDs with this tool (Byte blaster). Read the user manual for an explanation of this feature.

Since 2004, the LVDS output connectors in our Flat TV models are standardised (with some exceptions). With the two delivered LVDS interface cables (31p and 20p) you can cover most chassis (in special cases, an extra cable will be offered).

When operating, the tool will show a small (scaled) picture on a VGA monitor. Due to a limited memory capacity, it is not possible to increase the size when processing high-resolution LVDS signals (> 1280x960). Below this resolution, or when a DVI monitor is used, the displayed picture will be full size.

Generally this tool is intended to determine if the SSB is working or not. Thus to determine if LVDS, RGB, and sync signals are okay.

How to Connect
Connections are explained in the user manual, which is packed with the tool.

Note: To use the LVDS tool, you must have ComPair release 2004-1 (or later) on your PC (engine version >= 2.2.05).
For every TV type number and screen size, one must choose the proper settings via ComPair. The ComPair file will be updated regularly with new introduced chassis information.

How to Order
- LVDS tool (incl. two LVDS cables: 31p and 20p): 3122 785 90671.
- LVDS tool Service Manual: 3122 785 00810.
- LVDS cable 31p/FI -> 31p/FI (for JL2.1 chassis): 3122 785 90861.
- LVDS cable 30p/DF -> 31p/FI (for LC4.3 chassis): 3122 785 90821.
- LVDS cable 41p/FI -> 31p/FI (dual -> single LVDS): 3122 785 90831.
- LVDS cable 20p/DF -> 20p/DF (standard with tool): 3122 785 90731.
- LVDS cable 31p/FI -> 31p/FI (standard with tool): 3122 785 90662.
- LVDS cable 20p/DF -> 20p/DF (for LC4.1 chassis): 3122 785 90851.

5.5 Error Codes

5.5.1 Introduction

The error code buffer contains all detected errors since the last time the buffer was erased. The buffer is written from left to right, new errors are logged at the left side, and all other errors shift one position to the right.
When an error occurs, it is added to the list of errors, provided the list is not full. When an error occurs and the error buffer is full, then the new error is not added, and the error buffer stays intact (history is maintained), except when the error is a protection error.
To prevent that an occasional error stays in the list forever, the error is removed from the list after more than 50 hrs. of operation.
When multiple errors occur (errors occurred within a short time span), there is a high probability that there is some relation between them.

Basically there are three kinds of errors:
- **Errors detected by the Stand-by Processor.** These errors will always lead to protection and an automatic start of the blinking LED for the concerned error (see paragraph “The Blinking LED Procedure”). In these cases SDM can be used to start up (see chapter “Stepwise Start-up”). Note that it can take up to 90 seconds before the TV goes to protection and starts blinking the error (e.g. error 53)
- **Errors detected by VIPER that lead to protection.** In this case the TV will go to protection and the front LED should also blink the concerned error. Depending on the software version it is possible that this mechanism does not work. See also paragraph “Error Codes” -> “Error Buffer” -> “Extra Info”.
- **Errors detected by VIPER that do not lead to protection.** In this case the error will be logged into the error buffer and can be read out via ComPair, via blinking LED method, or in case you have picture, via SAM.

5.5.2 How to Read the Error Buffer

Use one of the following methods:
- On screen via the SAM (only if you have a picture). E.g.:
  - **00 00 00 00 00**: No errors detected
  - **06 00 00 00 00**: Error code 6 is the last and only detected error
  - **09 06 00 00 00**: Error code 6 was first detected and error code 9 is the last detected error
- Via the blinking LED procedure (when you have no picture). See next paragraph.
- Via ComPair.

5.5.3 How to Clear the Error Buffer

Use one of the following methods:
- By activation of the “RESET ERROR BUFFER” command in the SAM menu.
- With a normal RC, key in sequence “MUTE” followed by “062599” and “OK”.
- If the content of the error buffer has not changed for 50+ hours, it resets automatically.

5.5.4 Error Buffer

In case of non-intermittent faults, clear the error buffer before you begin the repair (**before** clearing the buffer, write down the content, as this history can give you significant information). This to ensure that old error codes are no longer present.
If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error code and not the actual cause (e.g., a fault in the protection detection circuitry can also lead to a protection).
There are several mechanisms of error detection:
- Via error bits in the status registers of ICs.
- Via polling on I/O pins going to the stand-by processor.
- Via sensing of analogue values on the stand-by processor or the Viper.
- Via a “not acknowledge” of an I^2C communication

Take notice that some errors need more than 90 seconds before they start blinking. So in case of problems wait 2 minutes from start-up onwards, and then check if the front LED is blinking.

Table 5-3 Error code overview

Error	Description	Error/Prot	Detected by	Device	Defective module	Result
1	I^2C1	P	VIPER	/	I^2C1_blocked	Protection + Error blinking
2	I^2C2	E	VIPER	/	I^2C2_blocked	Error logged
3	I^2C3	P	Stby µP	/	/	Protection + Error blinking
4	I^2C4	E	VIPER	/	I^2C4_blocked	Protection + Error blinking
5	VIPER does not boot	P	Stby µP	PNX8550	/	Protection + Error blinking
6	5V supply	P	Stby µP	/	/	Protection + Error blinking
7	8V6 supply	P	Stby µP	/	/	Protection + Error blinking
8	1.2V DC/DC	P	Stby µP	/	/	Protection + Error blinking
9	2.5V DC/DC	P	Stby µP	/	/	Protection + Error blinking
11	3.3V DC/DC	P	Stby µP	/	/	Protection + Error blinking
12	12V supply	P	Stby µP	/	/	Protection + Error blinking
14	Audio	P	Stby µP	/	/	Protection + Error blinking

Error	Description	Error/Prot	Detected by	Device	Defective module	Result
18	MPIF1 ref. freq.	E	VIPER	PNX3000	IF I/O	Error logged
23	MPIF2 ref. freq.	E	VIPER	PNX3000	IF I/O 2	Error logged
25	Supply fault	P	Stby µP	n.a.	/	Protection + Error blinking
27	PNX2015 HD subsystem part	E	VIPER	/	/	see extra info
28	MOP	E	VIPER	/	/	see extra info
32	MPIF1	E	VIPER	PNX3000	Analog 1 front end 1	Error logged
33	MPIF2	E	VIPER	PNX3000	Analog 2 front end 2	Error logged
34	Tuner1	E	VIPER	/	Tuner 1	Error logged
35	Tuner sub	E	VIPER	/	Tuner sub	Error logged
36	OFDM (channel decoder)	E	VIPER	TDA10046	/	Error logged
39	POD/Common Interface	E	VIPER	STV0701	/	Error logged
43	Hi Rate Front End	E	VIPER	TDA9975	HDMI	Error logged
44	NVM	P	Stby µP	/	/	see extra info
45	Columbus 1	E	VIPER	PNX2015	Comb filter	Error logged
46	Pacific 3	E	VIPER	/	/	TV to standby + Error logged
53	VIPER	P	Stby µP	PNX8550	/	Protection + Error blinking
63	Power OK	P	VIPER	/	/	Protection + Error blinking (see extra info)
64	Display	E	VIPER	/	/	Error logged

Extra Info

- **Rebooting.** When a TV is constantly rebooting due to internal problems, most of the time no errors will be logged or blinked. This rebooting can be recognised via a ComPair interface and Hyperterminal (for Hyperterminal settings, see paragraph “Stand-by software upgrade). You will see that the loggings which are generated by the main software keep continuing. In this case (rebooting) diagnose has to be done via ComPair.
- **Error 1 (I²C bus 1 blocked).** When this error occurs, the TV will go to protection and the front LED will blink error 1. Now you can start up the TV via the SDM short-cut pins on the SSB. The TV will start up and ignore the error. Depending on the problem it is even possible that you have picture.
- **Error 2 (I²C bus 2 blocked).** Due to hardware restriction (I²C bus 2 is the fast I²C bus) it will be impossible to start up the VIPER when I²C bus 2 is blocked. When this error occurs, the TV will keep rebooting. Starting up the TV via the SDM short-cut pins will not work. So it will not be possible to read out error 2 via internal software (allthough it will be logged). Use ComPair for further diagnose (e.g. read out the NVM content).
- **Error 3 (I²C bus 3 blocked).** There are only three devices on I²C bus 3: VIPER, Stand-by Processor, and NVM. The Stand-by Processor is the detection device of this error, so this error will only occur if the VIPER or the NVM is blocking the bus. This error will also blink when the NVM gives no acknowledge on the I²C bus. Note that if the 12 V supply is missing, the DC/DC supply on the SSB will not work. Therefore the VIPER will not get supplies and could block I²C bus 3. So, a missing 12 V can also lead to an error 3.
- **Error 4 (I²C bus 4 blocked).** In this chassis, error 4 is no longer a protection error.
- **Error 5 (VIPER does not boot).** This error will point to a severe hardware problem around the VIPER (supplies not OK, VIPER completely dead, I²C link between VIPER and Stand-by Processor broken, etc...).
- **Error 7 (8V6 error).** In case of a TV with SDI display you will see error 7 blink in case of an audio protection. So except a problem with the 8V6 itself it is also possible that there is something wrong with the audio part. See also paragraph "Hardware Protections" for this.
- **Error 14 (Audio protection).** The detection is done on the audio board itself. Several items are monitored: overvoltage, overcurrent, DC level on the speakers and the audio supply voltages. If one of these items fails, the audioprotection will switch off the main supply. All supplies will drop, the standby processor “thinks” there is a mains dip, and will reboot. At the beginning of the boot process, the audio-protection line is monitored : if this line is “active”, the set will go to protection and will blink error 14.
- **Error 27 (PNX2015 HD subsystem part).** Diagnosing this error will not be possible via the normal errorcodes. In case this device can not communicate with the Viper via I²C, it will not be possible to initialise the tunnelbus. Hence the software will not be able to start up, and will re-boot constantly. Diagnosing these problems will only be possible via ComPair. In theory it is possible that the error is logged in the NVM (that’s why this error is still mentioned here).
- **Error 28 (MOP/EPLD)** Due to the detection mechanism of the MOP error it is possible that the actual logging of the error can take up to 4 minutes (worst case). So if you want to be sure there is a MOP error, reset the error buffer, restart the TV and wait for 4 minutes before checking the error buffer again. The detection mechanisme for this error has been changed to avoid false MOP errors.
- **Error 44 (NVM).** This error will probably never occur because it is masked by error 3 (I²C bus 3). The detection mechanism for error 3 checks on an I²C acknowledge of the NVM. If NVM gives no acknowledge, the stand-by software assumes that the bus is blocked, the TV goes to protection and error 3 will be blinking..
- **Error 46 (Pacific 3).** When this errors occurs the TV will go to stand-by. The reason for this is, when there is an occasional boot problem of the Pacific, it will look like the TV has started up in stand-by mode, and the customer can switch it on again. When there is an actual problem with or around the Pacific the TV will go to stand-by every time you try to start up. So this behaviour is an indication of a Pacific problem.
- **Error 53.** This error will indicate that the VIPER has started to function (by reading his boot script, if this would have failed, error 5 would blink) but initialization was never completed because of hardware peripheral problems (NAND flash, ...) or software initialization problems. Possible cause could be that there is no valid software loaded (try to upgrade to the latest main software version). Note that it takes 90 seconds before the TV goes to protection in this case.
- **Error 63 (POWER OK).** When this error occurs, it means that the POWER-OK line did not became “high”. This error is only applicable for TV’s with a SDI display, a FHP display or a Sharp full HD display. Depending on the software version it is possible that the detection mechanism of this error does not function and that the set keeps rebooting.
- **Error 64 (Display error).** When this error occurs it means that there is a problem with the I²C communication towards the display. Allthough several display types cummunicate via I²C, this error will only work for sets with a FHP display.

5.6 The Blinking LED Procedure

5.6.1 Introduction

The blinking LED procedure can be split up into two situations:
- Blinking LED procedure in case of a protection detected by the stand-by processor. In this case the error is automatically blinked. This will be only one error, namely the one that is causing the protection. Therefore, you do not have to do anything special, just read out the blinks. A long blink indicates the decimal digit, a short blink indicates the units.
- Blinking LED procedure in the “on” state. Via this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful for fault finding, when there is no picture.

When the blinking LED procedure is activated in the “on” state, the front LED will show (blink) the contents of the error-buffer. Error-codes > 10 are shown as follows:
1. “n” long blinks (where “n” = 1 - 9) indicating decimal digit,
2. A pause of 1.5 s,
3. “n” short blinks (where “n”= 1 - 9),
4. A pause of approx. 3 s.
5. When all the error-codes are displayed, the sequence finishes with a LED blink of 3 s,
6. The sequence starts again.

Example: Error 12 8 6 0 0.
After activation of the SDM, the front LED will show:
1. 1 long blink of 750 ms (which is an indication of the decimal digit) followed by a pause of 1.5 s,
2. 2 short blinks of 250 ms followed by a pause of 3 s,
3. 8 short blinks followed by a pause of 3 s,
4. 6 short blinks followed by a pause of 3 s,
5. 1 long blink of 3 s to finish the sequence,
6. The sequence starts again.

5.6.2 How to Activate

Use one of the following methods:
- **Activate the SDM.** The blinking front LED will show the entire contents of the error buffer (this works in “normal operation” mode).
- **Transmit the commands “MUTE” - “062500” - “OK” with a normal RC.** The complete error buffer is shown. Take notice that it takes some seconds before the blinking LED starts.
- T**ransmit the commands “MUTE” - “06250x” - “OK” with a normal RC** (where “x” is a number between 1 and 5). When x= 1 the last detected error is shown, x= 2 the second last error, etc.... Take notice that it takes some seconds before the blinking LED starts.

5.7 Protections

5.7.1 Software Protections

Most of the protections and errors use either the stand-by microprocessor or the VIPER controller as detection device. Since in these cases, checking of observers, polling of ADCs, filtering of input values are all heavily software based, these protections are referred to as software protections.
There are several types of software related protections, solving a variety of fault conditions:
- **Protections related to supplies:** check of the 12V, +5V, +8V6, +1.2V and +3.3V.
- **Protections related to breakdown of the safety check mechanism.** E.g. since a lot of protection detections are done by means of the VIPER, failing of the VIPER communication will have to initiate a protection mode since safety cannot be guaranteed any more.

Remark on the Supply Errors
The detection of a supply dip or supply loss during the normal playing of the set does not lead to a protection, but to a cold reboot of the set. If the supply is still missing after the reboot, the set will go to protection.

Protections during Start-up
During start-up, some voltages and IC observers are actively monitored to be able to optimise the start-up speed, and to assure good operation of all components. If these monitors do not respond in a defined way, this indicates a malfunction of the system and leads to a protection. As the observers are only used during start-up, they are described in the start-up flow in detail (see paragraph “Stepwise Start-up").

5.7.2 Hardware Protections

There are no real hardware protections in this chassis.. Allthough, in case of an audio problem, the audio protection circuit will switch off the main supply. The stand-by microprocessor will interpretate this as a mains dip and will try to start up again.
In case of a set with SDI display this will probably lead to protection error 7 (8V6 error) and an internal error 11 (so it looks like an overvoltage protection of the SDI supply itself). In other cases it will lead to error 14 (audio protection).

Repair Tips
- It is also possible that you have an audio DC protection because of an interruption in one or both speakers (the DC voltage that is still on the circuit cannot disappear through the speakers).

5.8 Fault Finding and Repair Tips

Read also paragraph "Error Codes" - "Extra Info".

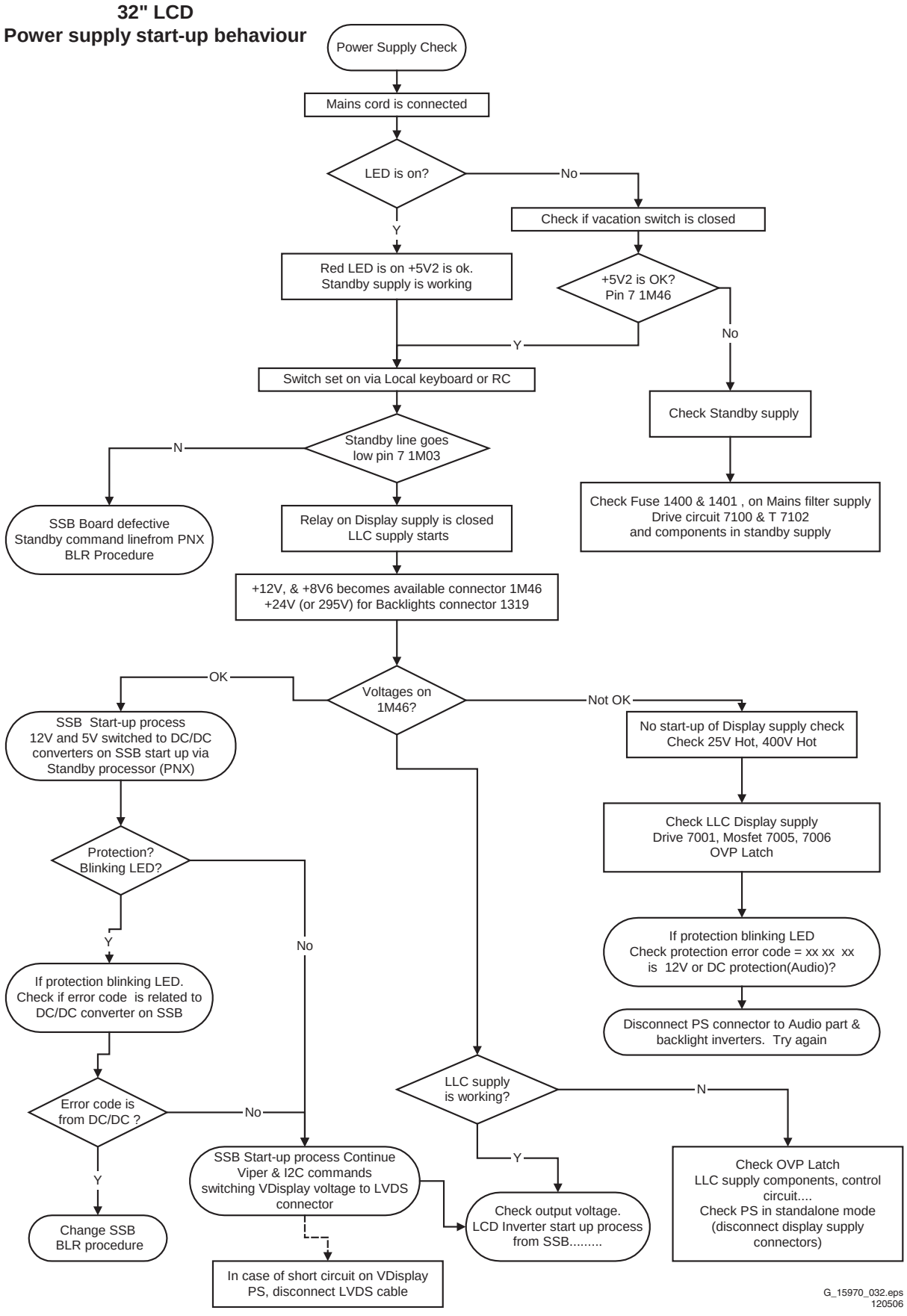


Figure 5-18 First line fault find tree 32" LCD

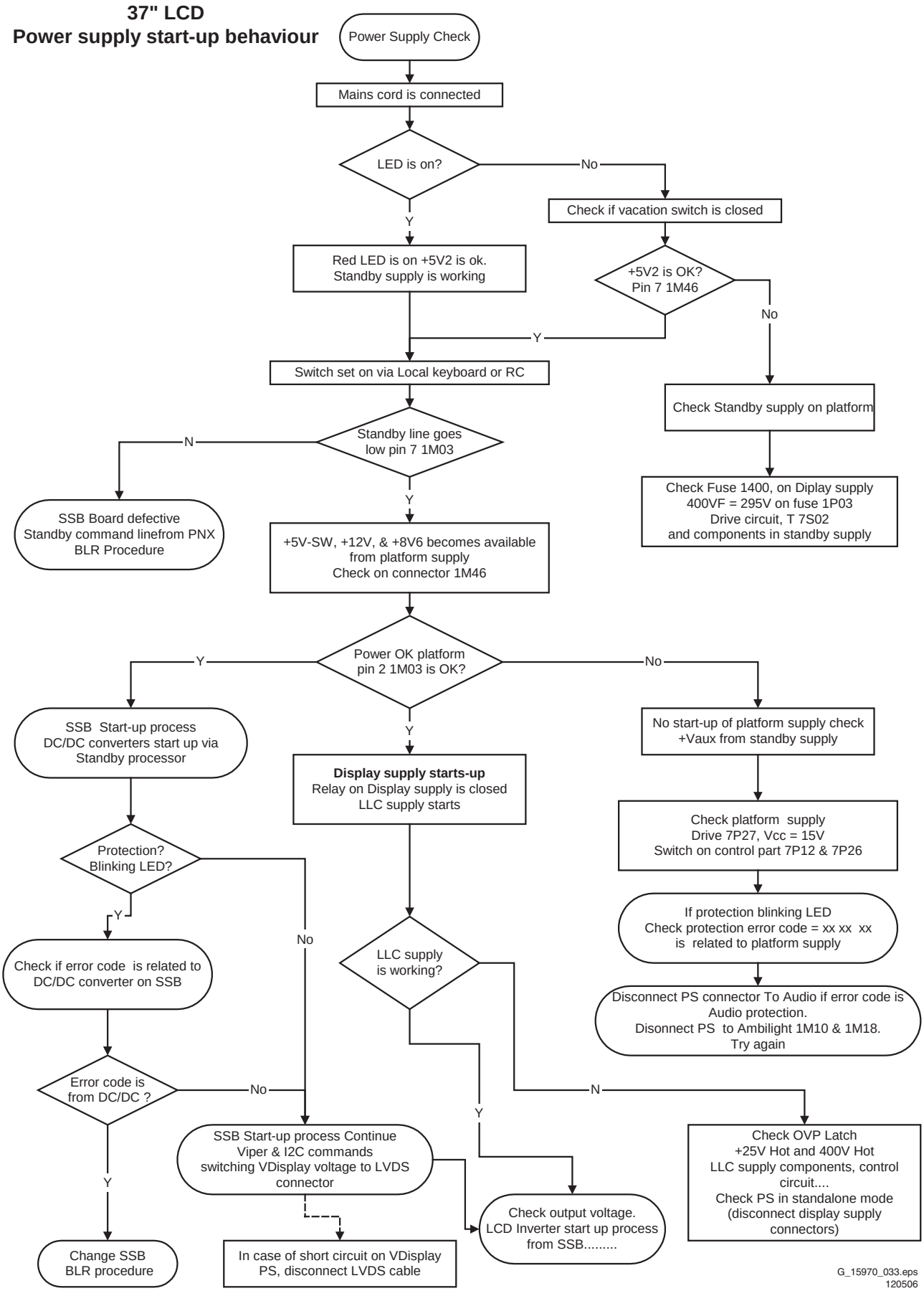


Figure 5-19 First line fault find tree 37" LCD

5.8.1 Exit “Factory Mode”

When an "F" is displayed in the screen's right corner, this means that the set is in "Factory" mode, and it normally happens after a new SSB has been mounted.
To exit this mode, push the "VOLUME minus" button on the TV's keyboard control for 5 seconds and restart the set.

When a DVBT set starts up in factory mode, the set will tune to preset 0. When there is no channel installed on preset 0, there will be no picture and it will look like the set is in standby mode. De-activating factory mode can also be done via the above method.

5.8.2 MPIF

Important things to make the MPIF work:
- Supply.
- Clock signal from the AVIP.
- I^2C from the VIPER.

When there is no sound an external sources, check the audio supply of the MPIF.

5.8.3 PACIFIC 3

In case the Pacific fails, the set will go to stand-by. The reason for this is, when there is an occasional boot problem of the Pacific, it will look like the set has started up in stand-by mode, and the customer can switch it “on” again. When there is an actual problem with or around the Pacific the set will go to stand-by every time you try to start up. So this behaviour is an indication of a Pacific problem.

5.8.4 Ambilight

Note: in case of Ambilight protection, the set itself will not go to protection, only the Ambilight board. When you disconnect the set from the mains and reconnect again, the Ambilights will work again.

In case of multiple protections, check and replace the invertor transformers and/or the lamp unit(s).

Protections on the ambilight boards:

- **Parallel arcing protection**.In normal operation the inverter frequency is ±63 kHz. In case of short circuit of the transformer output the frequency is >100 kHz. Protection is done via sensing the switching frequency.
- **Serial arcing protection**. The detection of the arcing is done in the ground wire of lamp units. The µProcessor is counting the protection pulses. When 50 pulses are counted within 2 seconds protection will be triggered.

5.8.5 Sanken display supply.

All 42” LCD sets for this chassis have a Sanken display supply. If this supply fails there will be no error or protection because there is no feedback foreseen from the supply towards the SSB. The result of a failing Sanken display supply could be that there is no picture, but that you will probably have sound and 1 out of 3 ambilights will still work (in case ambilight is switched “on”).
Another result of a failing Sanken display is of course that the set is completely dead.
When the primary circuit of the platform supply fails, there is a high possibilty that the main fuse of the Sanken display supply will break. In this case the Sanken supply must not be replaced completely. That fuse can be ordered separately (see partslist). For safety reasons, make sure to use the correct fuse type.

5.8.6 DC/DC Converter

Introduction
- Because IC’s on the SSB require low supply voltages (1.2V, 2.6V, 3.3V) at high current (a few Ampères), on-board DC-DC converters were implemented:
  - 12V / 1V2 DC-DC converter
  - extra 12V / 1V2 DC-DC converter for FPGA (only on 1080p boards)
  - 12V / 2V6 DC-DC converter
  - 12V / 3V3 DC-DC converter
  - Vtun (+33V) generator (not for single window digital boards)
- Startup sequence:
  Apply +5V2. The standby microprocessor will begin the start sequence.
  - the STANDBY signal will go low to enable the external supply that will deliver +12V, +8V6 and +5V to the SSB via connector 1M46
  - As soon as the +12V has its nominal value, the 12V / 1V2 DC-DC converter is enabled via ENABLE 1V2. +1V2 should have its nominal value within miliseconds.
  - If the +1V2 is ok the 12V / 2V5, 12V / 3V3 DC-DC converters (and the Vtun generator and 12V / 1V2 DC-DC converter for FPGA, if present) are enabled via ENABLE 2V5 and ENABLE 3V3. +2V5 and +3V3 (and Vtun and +1V2-FPGA, if it is the case) should have their nominal values within a few miliseconds.
- There are LEDs that light up when +1V2, +2V5, +2V5D and +3V3 are available.
- If the +12V is not available the start-up sequence is stopped and the board enters in protection state.
- The same will happen if, further in the start-up sequence a voltage is missing or the signal SUPPLY-FAULT remains low.
- The signal SUPPLY-FAULT should be high (>2V) when all DC-DC converters are working properly. The signal is becoming active (low) when there is a defective or missing component in any of the three DC-DC converters or the output voltages are short-circuited to ground.

Fault Finding
- The best way to find a failure in the DC-DC converters is to check their start-up sequence at power on via the mains cord, presuming that the standby µP is operational.
- If the input voltage of the DC-DC converters is around 12V (measured on the decoupling capacitors 2U17, 2U25 and 2U45) and the enable signals are low (active) then the output voltages should have their nominal values.
- In case of a wrong value of the output voltages (or no output voltage):
  - Check the value of the signals (STANDBY, ENABLE 1V2, ENABLE 2V5, ENABLE 3V3 and SUPPLY-FAULT)
  - Check the value of the suply voltages for the IC controllers (pin 15 of IC’s 7U04, 7U05, 7U06 and 7U64 must be +12V)
  - Check the switching frequency (250 kHz) and the duty cycle of each DC-DC converter
  - Check short-circuits to GND of output voltages

5.9 Software Upgrading

5.9.1 Introduction

The set software and security keys are stored in a NAND-Flash, which is connected to the VIPER via the PCI bus.

It is possible **for the user** to upgrade the **main** software via the USB port. This allows replacement of a software image in a stand alone set, without the need of an E-JTAG debugger. A description on how to upgrade the main software can be found in chapter 3 "Directions For Use".

Important: When the NAND-Flash must be replaced, a new SSB must be ordered, due to the presence of the security keys!!! (copy protection keys, MAC address, for US the POD keys, ...). See table “SSB service kits” for the order codes.
Perform the following actions after SSB replacement:
1. Set the correct option codes (see sticker inside the TV).
2. Update the TV software (see chapter 3 for instructions).
3. Perform the alignments as described in chapter 8.
4. Check in CSM if the HDMI keys are valid.

Table 5-4 SSB service kits

Model Number	SSB factory assy code[1)]	New SSB order code
32PF9531/10	3104 328 46631	3104 328 46821
32PF9631D/10	3104 328 46691	3104 328 46811
32PF9731D/10	3104 328 44071	3104 328 46801
37PF9731/69	3104 328 44061	3104 328 46791
37PF9731D/10	3104 328 44061	3104 328 46791
42PF9731D/10	info not available at time of printing	
42PF9831/69	3104 328 44052	3104 328 46781
42PF9831D/10	3104 328 44052	3104 328 46781

1) Information in column “SSB factory assy code” is only for reference purposes. Do **not** use this code when ordering a new SSB.

5.9.2 Main Software Upgrade

The software image resides in the NAND-Flash, and is formatted in the following way:

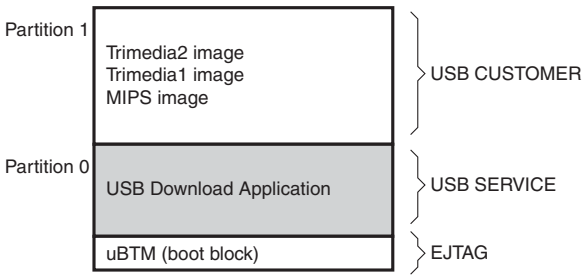


Figure 5-20 NAND-Flash format

Executables are stored as files in a file system. The boot loader (uBTM) will load the USB Download Application in partition 0 (USB drivers, boot script, etc.). This application makes it then possible to upgrade the main software via USB.

Installing "Partition 0" software is possible via an external EJTAG tool, but also in a special way with the USB stick (see description in paragraph “Partition 0“).

Partition 1 (Customer)
To do a main software upgrade (partition 1) via USB, the set must be operational, and the "Partition 0" files for the VIPER **must** be installed in the NAND-Flash!

The new software can be uploaded to the set by using a portable memory device or USB storage compliant devices (e.g. USB memory stick). You can download the new software from the Philips website to your PC.

Partition 0 (Service)
If the "Partition 0" software is corrupted, the software needs to be re-installed.
To upgrade this “USB download application” (partition 0 except the boot block), insert an USB stick with the correct software, and press the “red” button on the remote control (in ”TV” mode) when it is asked via the on screen text.

Caution:
- The USB download application will now erase **both** partitions (except the boot block), so you need to reload the main SW after upgrading the USB download application. As long as this is not done, the USB download application will start when the set is switched “on”.
- When something goes wrong during the progress of this method (e.g. voltage dip or corrupted software file), the set will not start up, and can only be recovered via the EJTAG tool!

5.9.3 Manual Start of the Software Upgrade Application

Normally, the software upgrading procedure will start automatically, when a memory device with the correct software is inserted, but in case this does not work, it is possible to force the TV into the software upgrade application. To do so:
- Disconnect the TV from the Mains/AC Power.
- Press the “OK” button on a Philips DVD RC-6 remote control (it is also possible to use the TV remote in "DVD" mode).
- Keep the “OK” button pressed while connecting the TV to the Mains/AC Power.
- The software upgrade application will start.
- When a memory device with upgrade software is connected, the upgrade process will start.

5.9.4 Stand-by Software Upgrade

There are two methods now to upgrade stand-by software:

Upgrade via USB
In this chassis it is possible to upgrade stand-by software via a USB stick. The method is similar to upgrading main software via USB.
Use the following steps:
1. create a directory “upgrades” on your USB stick.
2. Copy the stand-by software (delivered via the Service organisation) into this directory.
3. Insert the USB stick into the TV.
4. Start the download application manually (see paragraph “Manual start of the Software Upgrade Application”.
5. Select the appropreate file and press the red button to upgrade:

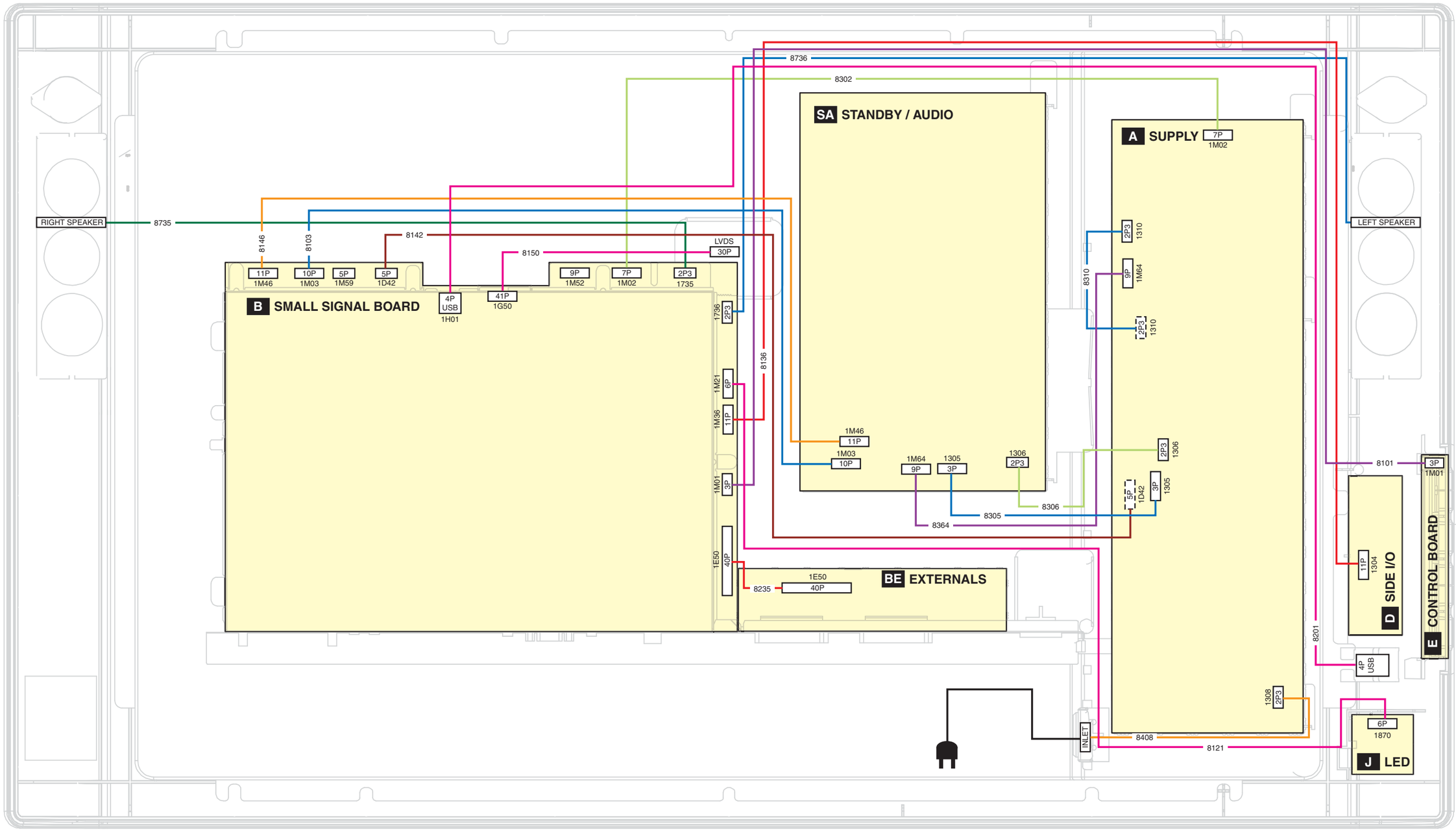
Upgrade via PC and ComPair interface
It is possible to upgrade the Stand-by software via a PC and the ComPair interface. Check paragraph "ComPair" on how to connect the interface. To upgrade the Stand-by software, use the following steps:
1. Disconnect the TV from the Mains/AC Power.
2. Short circuit the SPI pins [2] on the SSB. They are located outside the shielding (see figure “Service mode pads”).
3. Keep the SPI pins shorted while connecting the TV to the Mains/AC Power.
4. Release the short circuit after approx. two seconds.
5. Start up HyperTerminal (can be found in every Windows application via Programs -> Accessories -> Communications -> HyperTerminal. Use the following settings:
   - COM1
   - Bits per second = 38400
   - Data bits = 8
   - Parity = none
   - Stop bits = 1
   - Flow control = Xon / Xoff.
6. Press “Shift U” on your PC keyboard. You should now see the following info:
   - PNX2015 Loader V1.0
   - 19-09-2003
   - DEVID=0x05
   - Erasing
   - MCSUM=0x0000
   - =

7. If you do not see the above info, restart the above procedure, and check your HyperTerminal settings and the connections between PC and TV.
8. Via “Transfer” -> “Send text file ...”, you can send the proper upgrade file to the TV. This file will be distributed via the Service Organization.
9. After successful programming, you must see the following info:
   - DCSUM=0xECB3
   - :Ok
   - MCSUM=0xECB3
   - Programming
   - PCSUM=0xECB3
   - Finished
10. If you do not see this info, restart the complete procedure.
11. Close HyperTerminal.
12. Disconnect and connect Mains/AC Power again.

6. Block Diagrams, Test Point Overviews, and Waveforms

Wiring Diagram 32” STEP (ME6)

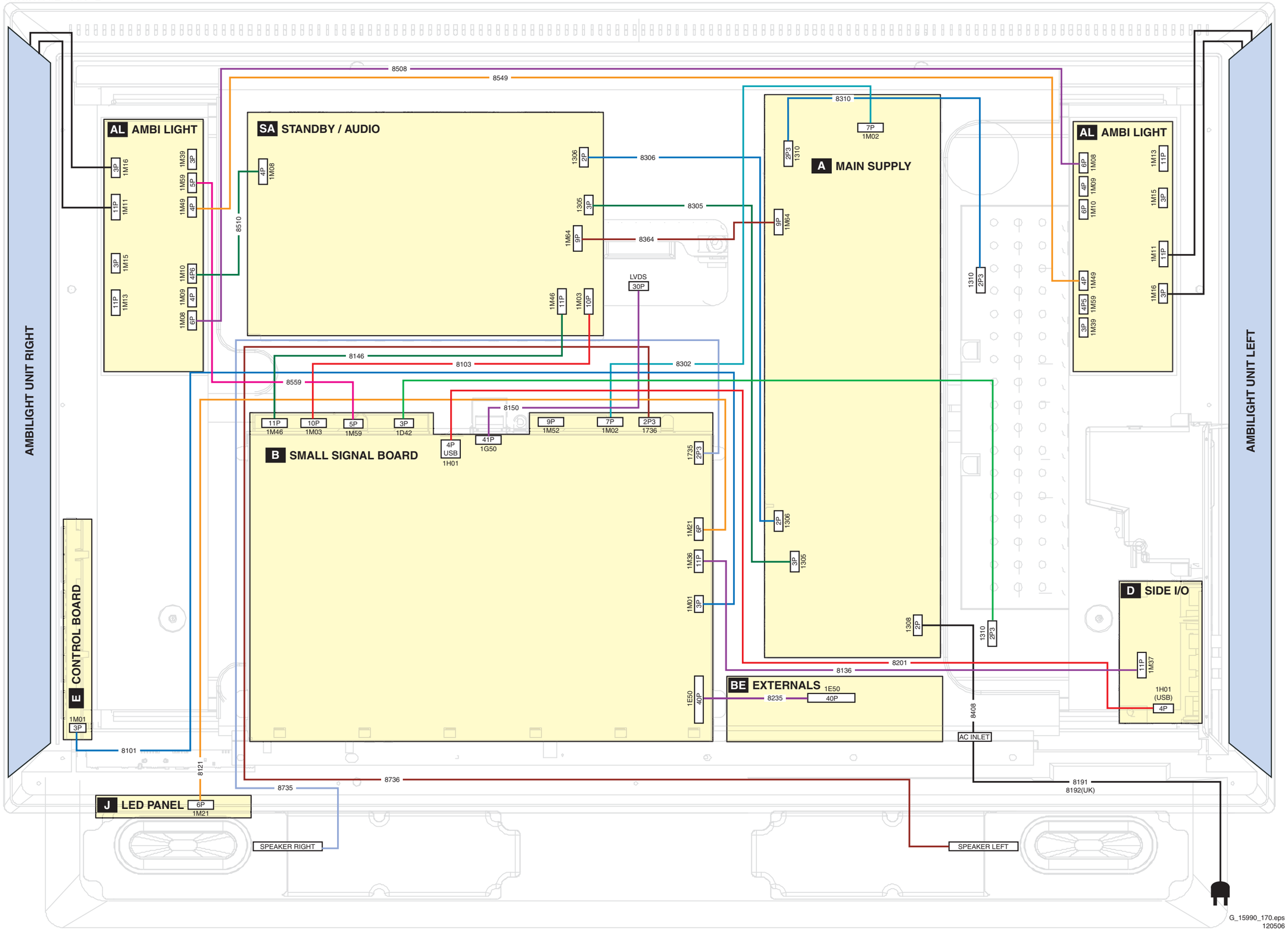
WIRING 32” STEP



G_15990_169.eps
120506

Wiring Diagram 32” TOP B

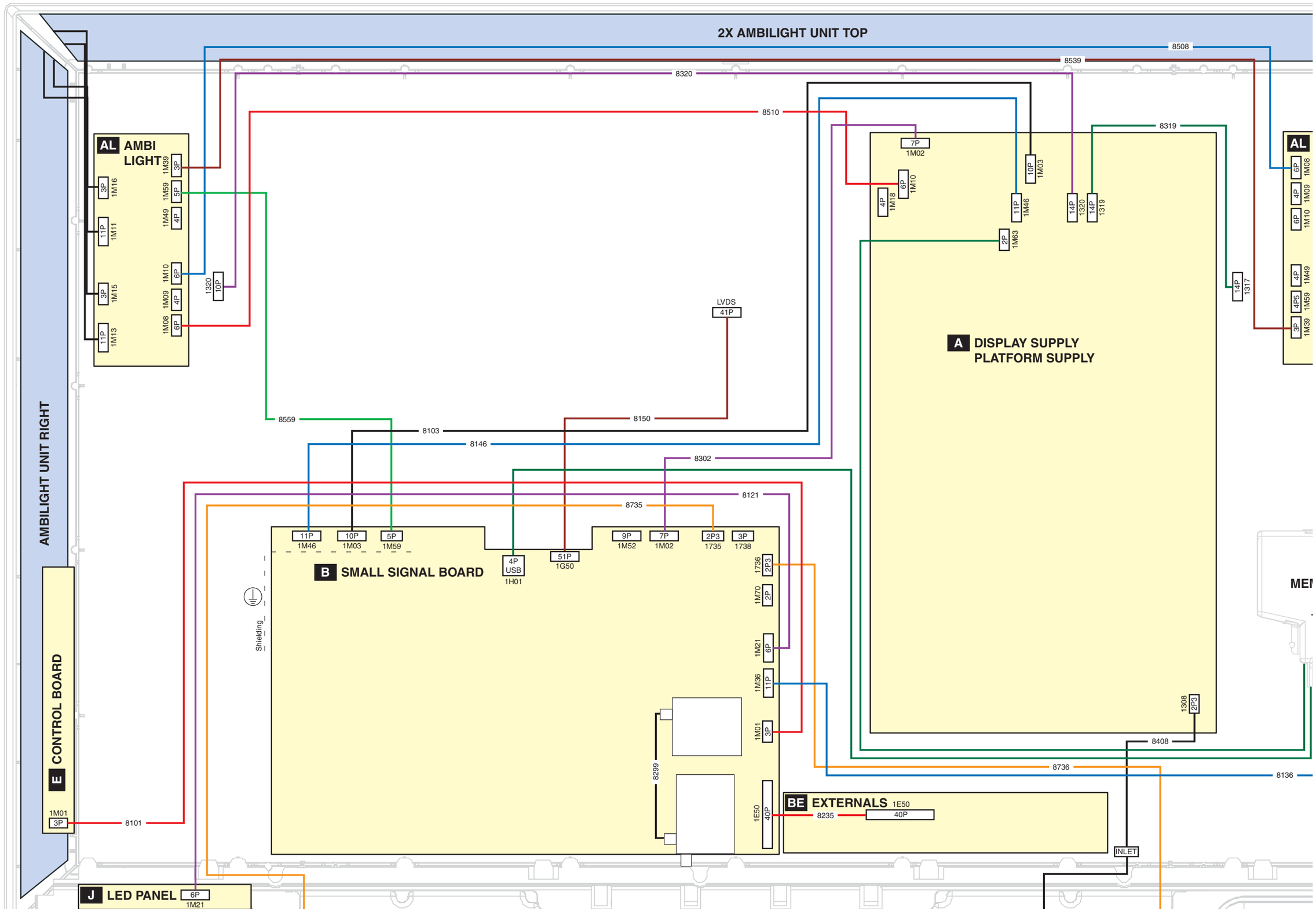
WIRING 32” TOP B



G_15990_170.eps
120506

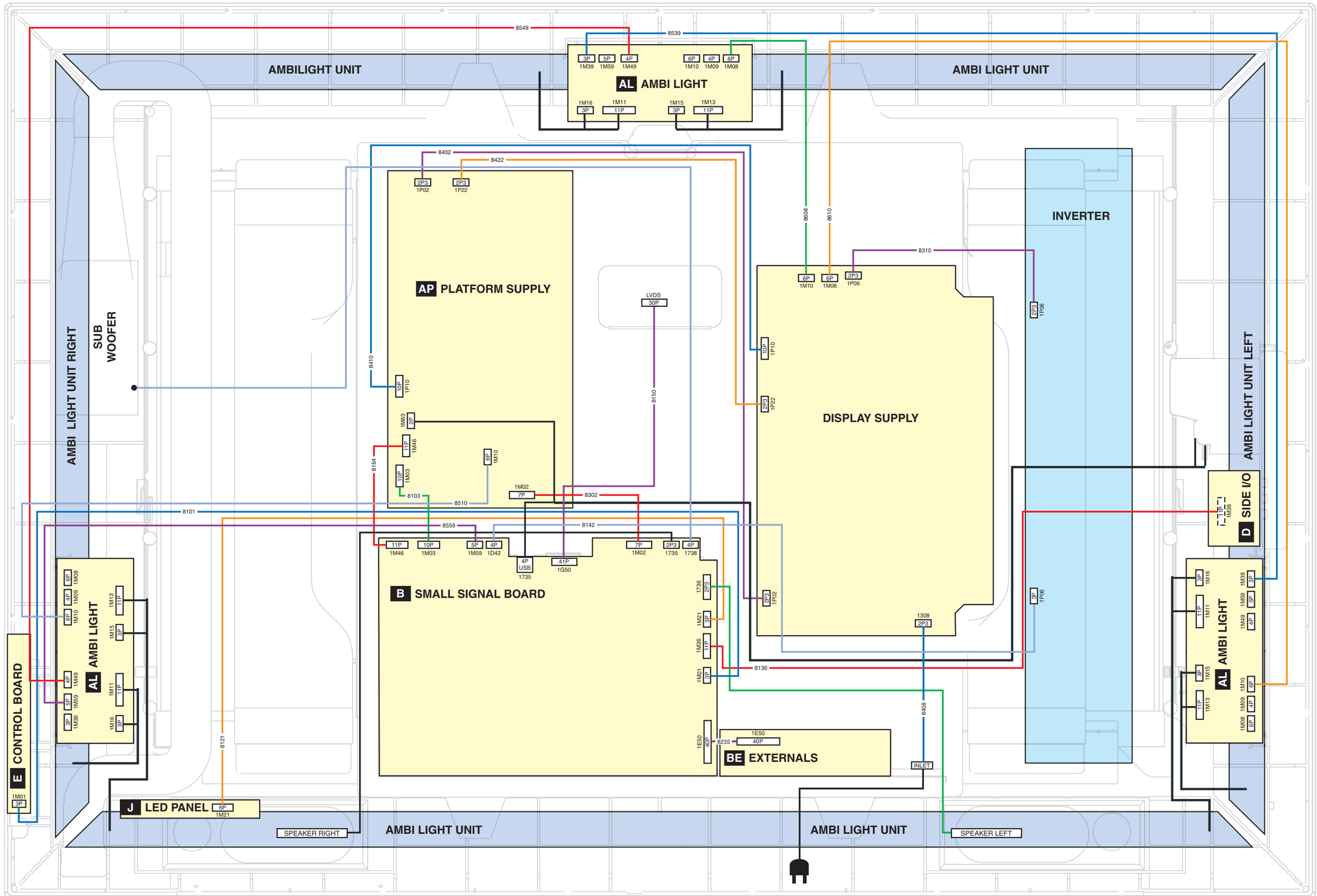
Wiring Diagram 37" TOP B

WIRING 37"TOP B



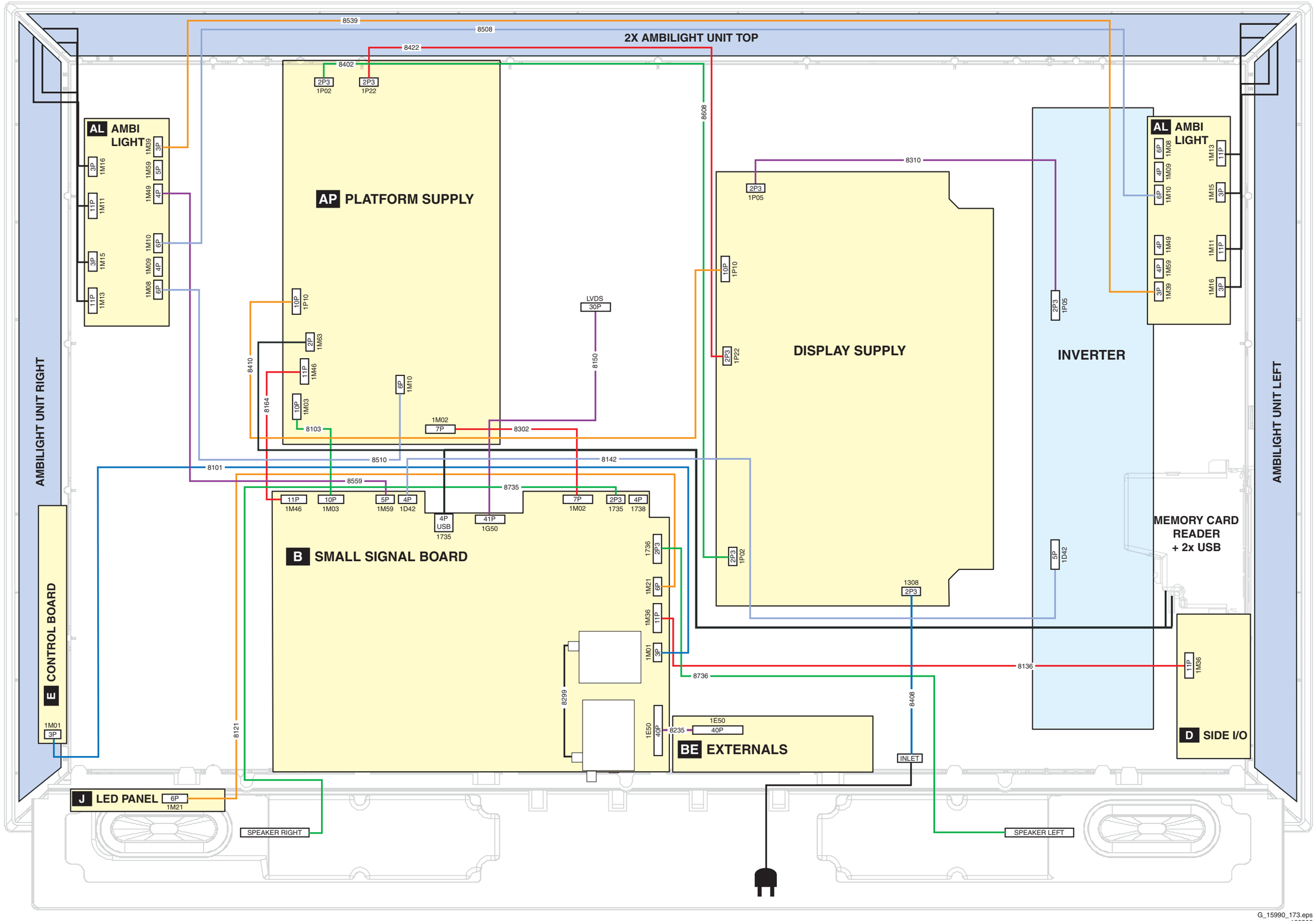
Wiring Diagram 42" TOP A

WIRING 42" TOP A



Wiring Diagram 42" TOP B

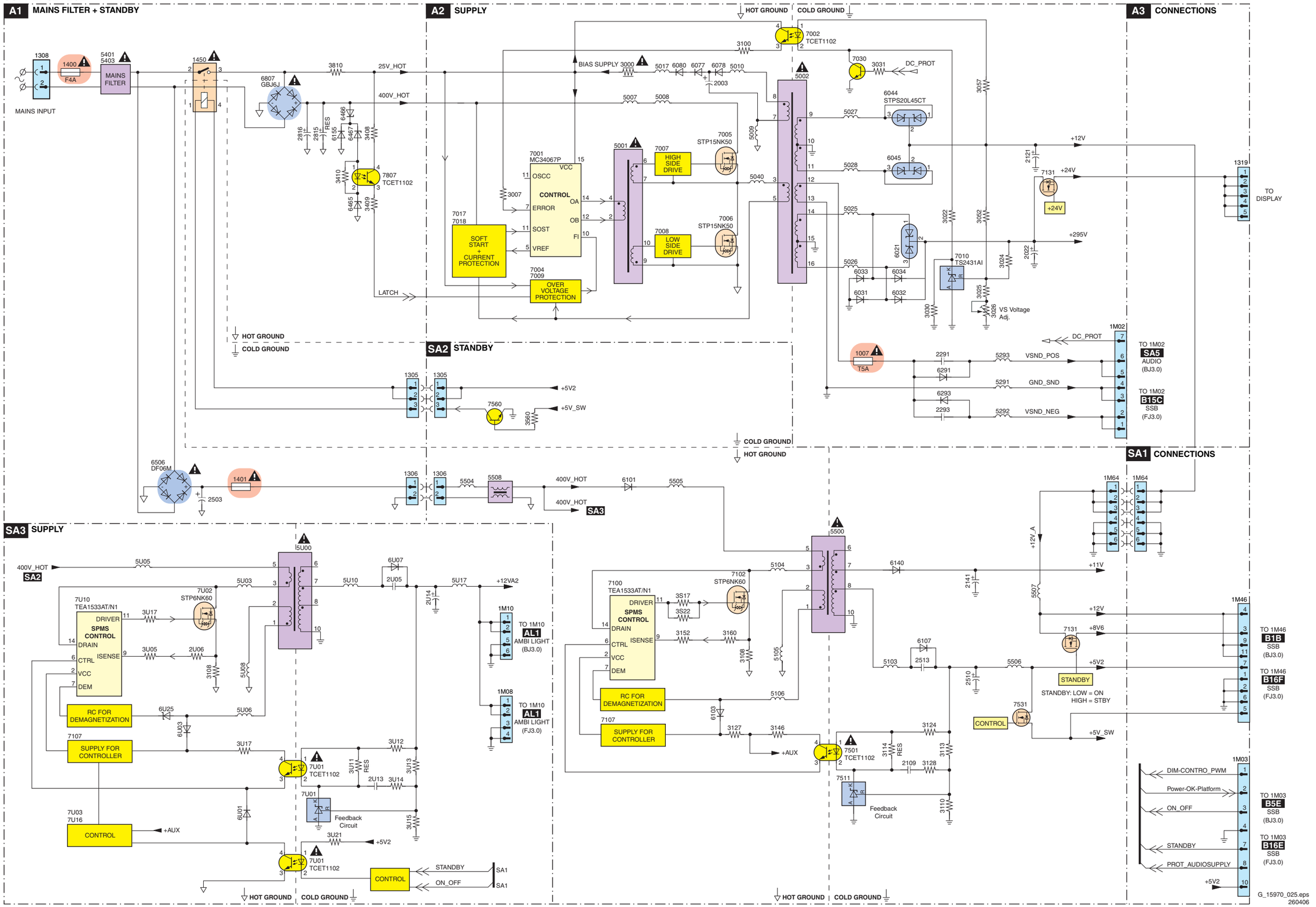
WIRING 42" TOP B



G_15990_173.eps
120506

Block Diagram Display Supply 32” LCD

SUPPLY 32" LCD



Block Diagram Platform Supply 37” LCD

SUPPLY 37" LCD

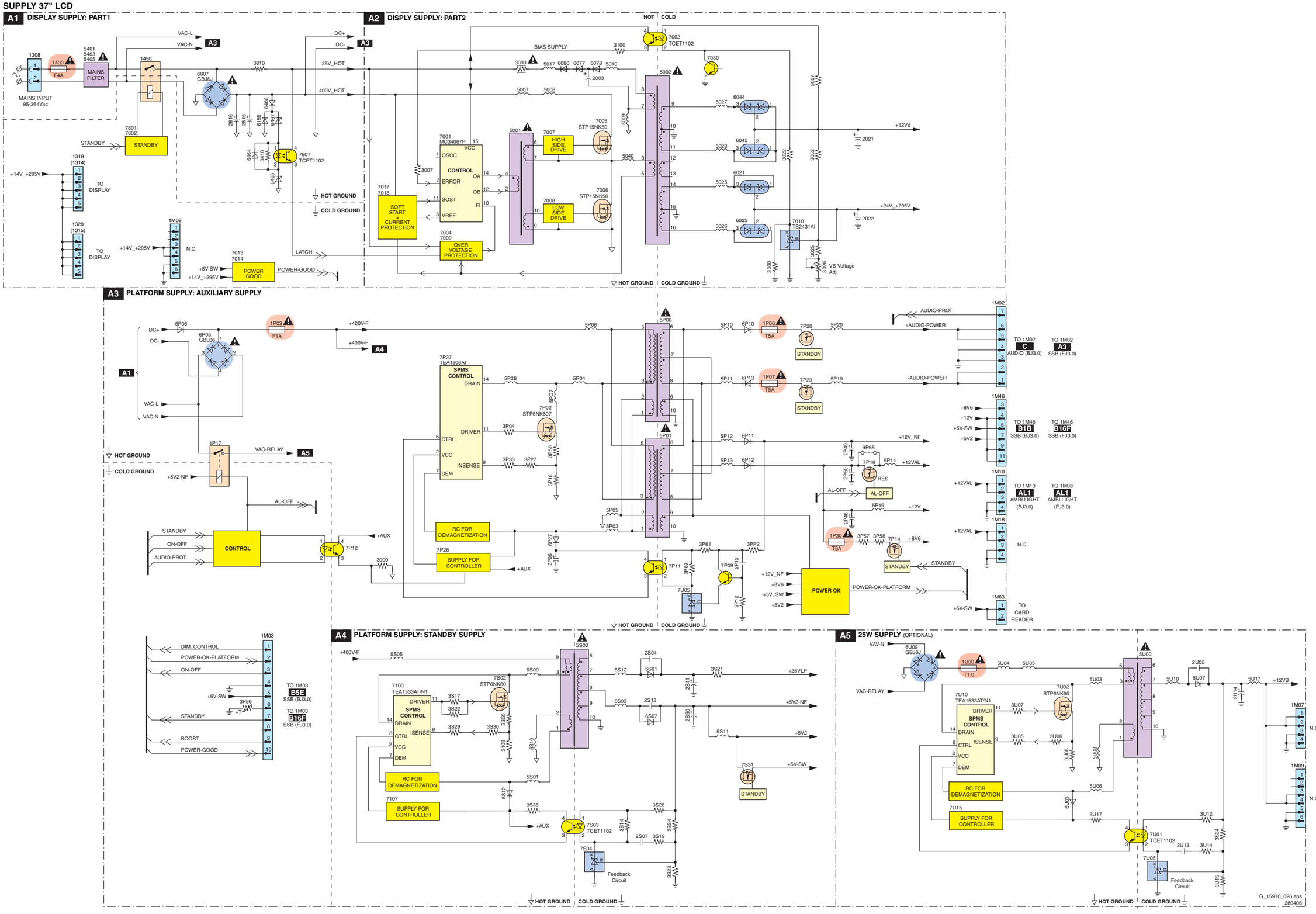
A1 DISPLAY SUPPLY: PART1

A2 DISPLY SUPPLY: PART2

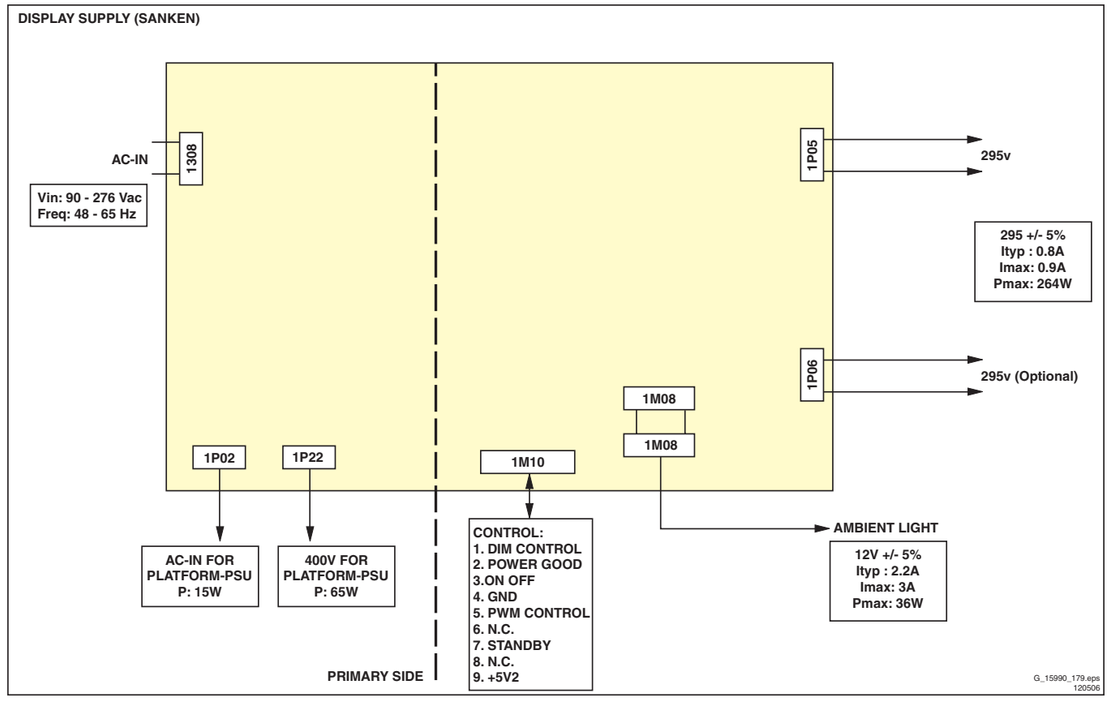
A3 PLATFORM SUPPLY: AUXILIARY SUPPLY

A4 PLATFORM SUPPLY: STANDBY SUPPLY

A5 25W SUPPLY (OPTIONAL)



Block Diagram Display Supply (Sanken)

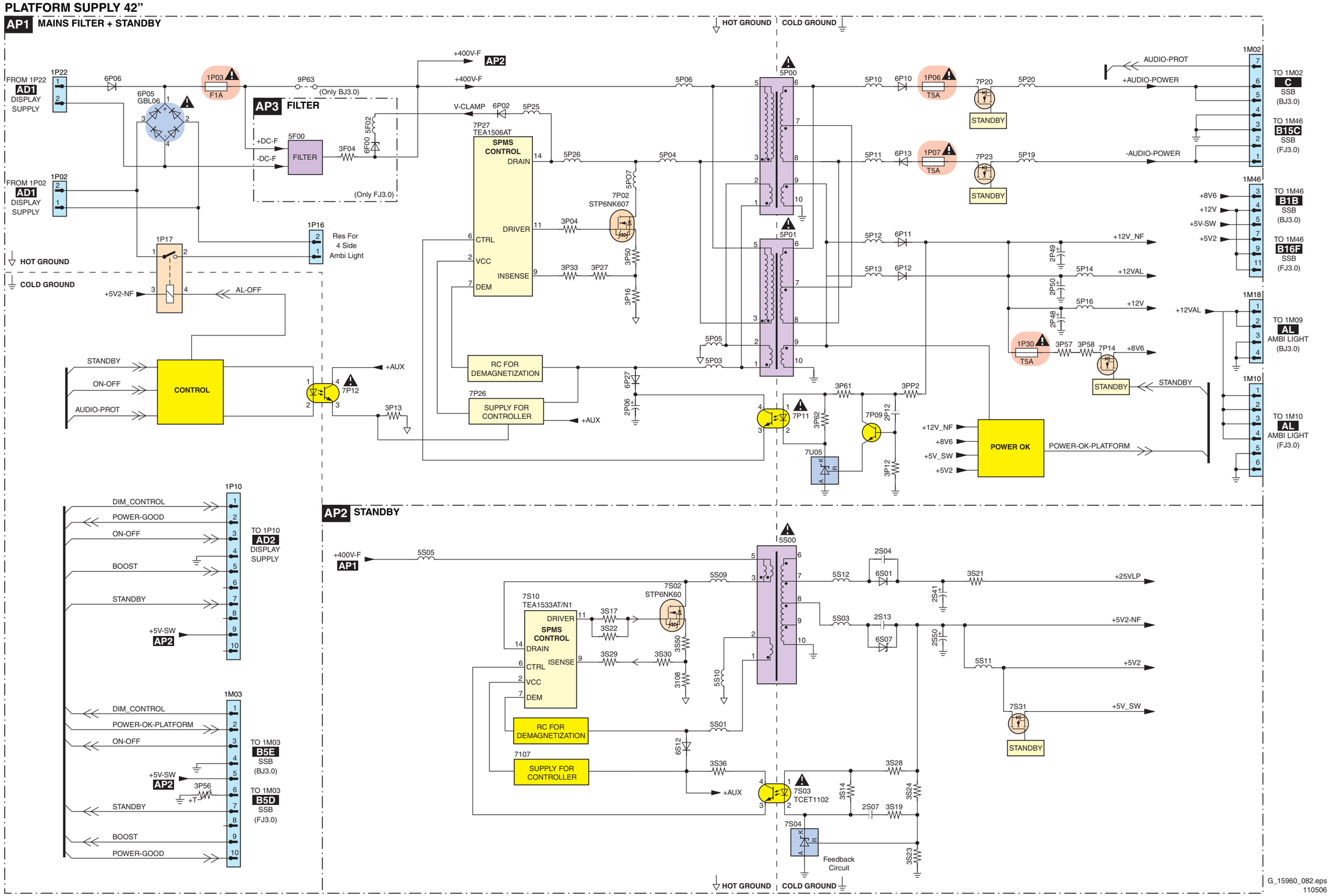


Personal Notes:

E_06532_012.eps
131004

Block Diagram Platform Supply 42”

PLATFORM SUPPLY 42”



Block Diagram Video

VIDEO

B2A TUNER: MAIN
1W05 TD1316AF
MAIN TUNER
IF_OUT1, IF_AGC, XTAL_OUT, RF_AGC, IF_OUT3, IF_OUT2, SDA, SCL
RF OUT
2W91
AFC-IF-MAIN
FREF-TUN-MAIN
AGC-TUN-MAIN
P-IF-MAIN
N-IF-MAIN
(ONLY DUAL WINDOW)
IF-TER-MAIN
IF-TER-SUB

B2B TUNER MAIN: CHANNEL DECODER
7W17 TDA10046AHT
CHANNEL DECODER
VIP, VIM, AGC-TUN, AGC-TUN, XIN, AGC-IF
FE-MAIN-DATA
(ONLY DVBT)

B4 MPIF MAIN:
B16A
IF-TER2
9M8D ONLY NON DUAL WINDOW
1C52
7C02 EF
3C02
CVBS-TER-OUT
7C01-1 EF
3C05
7C01-2 EF
3C80
7C00 PNX3000HL
B4C IF
VIFINP, VIFINN, TUNERAGC, SIFINP, SIFINN, CVBSOUTIF
SOUND TRAP, GROUP DELAY, LPF, BPF, QSS, QSSOUT, TO AM INTERNAL AUDIO SWITCH
B4D SUPPLY + CONTROL, DIGITAL BLOCK
5C33, 5C34, 5C36 +5VMPIF-MAIN
SCL-DMA, SDA-DMA
B4A SOURCE SELECTION
CVBS/Y RIM, CLAMP, C-PRIM, LPF
MPIF MAIN
CVBS-IF, CVBS1, CVBS2, CVBS_DTV, CVBSY3, C3, CVBSIY4, C4, Y_COMB, C_COMB, RIPRIV_1, GIYIY_1, BIPBIU_1, RIPRIV_2, GIYIY_2, BIPBIU_2
CVBSOUTA, CVBSOUTB, N.C.
CVBSOUTIF-MAIN
AV1_CVBS
AV2_Y-CVBS
AV2_C
FRONT_Y-CVBS
FRONT_C
AV7_Y-CVBS
AV7_C
AV1-AV5-AV6_R-PR-D
AV1-AV5-AV6_G-Y-D
AV1-AV5-AV6_B-PB-D
AV2-AV4_R-PR-D
AV2-AV4_G-Y-D
AV2-AV4_B-PB-D
A/D, Yyuv 2FH, 2nd SIF A/D, YUV RGB, CLAMP, LEVEL ADAPT INV. PAL, U, V, U,V, MONO SEC., CVBS SEC
DATA LINK 1, DATA LINK 3, DATA LINK 2
STROBE1N, STROBE1P, DATA1N, DATA1P
STROBE3N, STROBE3P, DATA3N, DATA3P
STROBE2N, STROBE2P, DATA2N, DATA2P
STROBE1N-MAIN, STROBE1P-MAIN, DATA1N-MAIN, DATA1P-MAIN
STROBE3N-MAIN, STROBE3P-MAIN, DATA3N-MAIN, DATA3P-MAIN
STROBE2N-MAIN, STROBE2P-MAIN, DATA2N-MAIN, DATA2P-MAIN
HV-PRM-MAIN, CLK-MPIF
CLP PRIM, CLP SEC, CLP YUV, TIMING CIRCUIT

B4 MPIF SUB:
B16A
IF-TER-SUB
1A52
AGC-SUB
7A01 EF
3A05
3A80
7A00 PNX3000HL
B4G IF
VIFINP, VIFINN, TUNERAGC, SIFINP, SIFINN, CVBSOUTIF
SOUND TRAP, GROUP DELAY, LPF, BPF, QSS, QSSOUT, TO AM INTERNAL AUDIO SWITCH
B4F SUPPLY + CONTROL, DIGITAL BLOCK
5A33, 5A34, 5A36 +5VMPIF-SUB
SCL-DMA, SDA-DMA
B4E SOURCE SELECTION
CVBS/Y RIM, CLAMP, C-PRIM, LPF
MPIF SUB
CVBS-IF, CVBS1, CVBS2, CVBS_DTV, CVBSY3, C3, CVBSIY4, C4, Y_COMB, C_COMB, RIPRIV_1, GIYIY_1, BIPBIU_1, RIPRIV_2, GIYIY_2, BIPBIU_2
CVBSOUTA, CVBSOUTB, N.C.
CVBSOUTIF-SUB
AV1_CVBS
AV2_Y-CVBS
AV2_C
FRONT_Y-CVBS
FRONT_C
AV1-AV5-AV6_R-PR-D
AV1-AV5-AV6_G-Y-D
AV1-AV5-AV6_B-PB-D
AV2-AV4_R-PR-D
AV2-AV4_G-Y-D
AV2-AV4_B-PB-D
A/D, Yyuv 2FH, 2nd SIF A/D, YUV RGB, CLAMP, LEVEL ADAPT INV. PAL, U, V, U,V, MONO SEC., CVBS SEC
DATA LINK 1, DATA LINK 3, DATA LINK 2
STROBE1N, STROBE1P, DATA1N, DATA1P
STROBE3N, STROBE3P, DATA3N, DATA3P
STROBE2N, STROBE2P, DATA2N, DATA2P
STROBE1N-SUB, STROBE1P-SUB, DATA1N-SUB, DATA1P-SUB
STROBE3N-SUB, STROBE3P-SUB, DATA3N-SUB, DATA3P-SUB
STROBE2N-SUB, STROBE2P-SUB, DATA2N-SUB, DATA2P-SUB
HV-PRM-SUB, CLK-MPIF
CLP PRIM, CLP SEC, CLP YUV, TIMING CIRCUIT
(ONLY DUAL WINDOW)

B5 PNX2015:
7J00 PNX2015E
PNX2015
B5B DV I/O INTERFACE
B5A AUDIO/VIDEO
AVP1_DLK1SN, AVP1_DLK1SP, AVP1_DLK1DN, AVP1_DLK1DP
AVP1_DLK3SN, AVP1_DLK3SP, AVP1_DLK3DN, AVP1_DLK3DP
AVP1_DLK2SN, AVP1_DLK2SP, AVP1_DLK2DN, AVP1_DLK2DP
AVP1_HVINFO1, MPIF_CLK
AVP1_HSYNCFBL1, AVP1_VSYNC1
AVP2_HSYNCFBL1, AVP2_VSYNC2
AVP1_HSYNCFBL2, AVP2_HSYNCFBL2
AVP2_DLK1SN, AVP2_DLK1SP, AVP2_DLK1DN, AVP2_DLK1DP
AVP2_DLK3SN, AVP2_DLK3SP, AVP2_DLK3DN, AVP2_DLK3DP
AVP2_DLK2SN, AVP2_DLK2SP, AVP2_DLK2DN, AVP2_DLK2DP
AVP2_HVINFO1, MPIF_CLK
AVIP-1, AVIP-2
B5C TUNNELBUS
TUNNEL BUS
B5A AUDIO/VIDEO
I2S
B7C AUDIO/VIDEO
DV1_CLK, DV2_CLK, DV3_CLK
DV1_DATA(0-9), DV2_DATA(0-9), DV3_DATA(0-9)
B10C COM. INTERF.
DV1F-DV3F
DV1F-DATA 0 TO 7, DV2A-DATA 0 TO 7, DV3F-DATA 0 TO 7
COLUMBUS 3D Comb filter and noice reduction
MUX
B5B DV I/O INTERFACE
DV4_DATA_0 TO 9, DV5_DATA_0 TO 9
VIP
B5D DDR INTERFACE
PMX-MA(0-12), PNX-MDATA (0-15), MCLK_P, MCLK_N
PMX-MA, PNX-MDATA
PNX-MCLK-P, PNX-MCLK-N
7L50 K4D261638F
DDR SDRAM 16Mx16
B5E STANDBY
STANDBY PROCESSOR
See also Block digram Control
SPI-SDO, SPI-CLK, SPI-CSB, SPI-WP
7LA7 M25P05
512K FLASH

B6 SPIDER:
7R00 T6TE0TBG-0001
SPIDER
TUN-SPIDER-RX-CLKN, TUN-SPIDER-RX-CLKP, TUN-SPIDER-TX-CLKN, TUN-SPIDER-TX-CLKP
TUN-SPIDER-RX-DATA, TUN-SPIDER-TX-DATA
TUNNELBUS
B6B SPIDER: DDR
DDR INTERFACE
A(0-11), DQ(0-15)
7R01 K4H561638F
DDR SDRAM 16Mx16

B7 VIPER:
B7E VIPER: MAIN MEMORY
7V00 PNX8550
B7C TUNNELBUS
TUN-VIPER-RX-CLKP, TUN-VIPER-TX-CLKN, TUN-VIPER-TX-CLKP
TUN-VIPER-RX-DATA, TUN-VIPER-TX-DATA
B7B MAIN MEMORY
VIPER
Tunnel, Memory controller, DVD CSS, 2D DE, 2-Layer secondary video out, Dual SD single HD MPE2 decoder, 250Mhz MIPS32 CPU, Scaler and de-interlacer, Temporal noise redux, Video TS router, 1SD+1HD YUV Video in, Dual con acces, 5 Layer primary video out HD/VGA/656
MM_DATA, MM_A(0-12)
7V01 K4D551638F DDR SDRAM 1 16Mx16
7V02 K4D551638F DDR SDRAM 2 16Mx16
B16C
7M40 EF
AG28 DAC-CVBS, AJ30 C-MON-OUT, AD27 HPD-HIRATE, D29 M135-CLK
Y-CVBS-MON-OUT, C-MON-OUT, B11A, B11B

B8C FPGA 1080P
7F16 T6TF4HFG-0002
FPGA 1080P CYCLONE II
ONLY FULL HD 1920x1080
DV-ROUT, DV-GOUT, DV-BOUT

B8E PACIFIC 3
7F16 T6TF4HFG-0002
PACIFIC 3 PICTURE ENHANCEMENT
TXEA+, TXEA-, TXEB+, TXEB-, TXEC+, TXEC-, TXECLK+, TXECLK-, TXED+, TXED-, TXEE+, TXEE-
TXOA+, TXOA-, TXOB+, TXOB-, TXOC+, TXOC-, TXOCLK+, TXOCLK-, TXOD+, TXOD-, TXOE+, TXOE-
FOR NON FULL HD
FOR FULL HD

B8A VIDEO-FLOW / LVDS
1G50
VDISP
DUAL LVDS ONLY
TXEA-, TXEA+, TXEB-, TXEB+, TXEC-, TXEC+, TXECLK-, TXECLK+, TXED-, TXED+, TXEE-, TXEE+
5F06, 5F0B, 5F07, 5F08, 5F09, 5F0A, 5GA4, 5F00, 5F02, 5F03, 5F04, 5F05
TXOA-, TXOA+, TXOB-, TXOB+, TXOC-, TXOC+, TXOCLK-, TXOCLK+, TXOD-, TXOD+, TXOE-, TXOE+
LVDS CONNECTOR TO DISPLAY

B9A HDMI
1B01, 1B02
ARX2+, ARX2-, ARX1+, ARX1-, ARX0+, ARX0-, ARXC+, ARXC-, ARX-HOTPLUG
HDMI CONNECTOR
7B30 HPD-HIRATE
7B31 HPD-HIRATE
B9B HDMI: I/O + CONTROL
7B11 TDA9975
HDMI
RX2+A, RX2-A, RX1+A, RX1-A, RX0+A, RXC+A, RXC-1
RX2+B, RX2-B, RX1+B, RX1-B, RX0+B, RXC+B, RXC-B
Termination resistance control, Video output formatter, VHREF timing generator, Upsample, Derepeater, HDMI receiver, HDCP, I2C slave interface, Line time measuremebt, Activity detection & sync selec., Sync separator, Clocks generator, Slicers, ADC
DV4-DATA, DV5-DATA, DV4-CLK
DV-HREF, DV-VREF, DV-FREF
SDA-MM, SCL-MM
M135-CLK
VSYNC, HSYNC, SOG, R/PR-, G/Y, B/PB-
V-SYNC-VGA, H-SYNC-VGA, AV2-AV4_R-PR-A, AV1-AV5-AV6_R-PR-A, R-VGA, AV2-AV4_G-Y-A, AV1-AV5-AV6_G-Y-A, G-VGA, AV2-AV4_B-PB-A, AV1-AV5-AV6_B-PB-A, B-VGA

B11A I/O: PART1
1I10 VGA
R-VGA, G-VGA, B-VGA, H-SYNC-VGA, V-SYNC-VGA
1I02 R, G, B
AV1-AV5-AV6_R-PR-A, AV1-AV5-AV6_G-Y-A, AV1-AV5-AV6_B-PB-A

D SIDE I/O
1I02 VIDEO
1I001 S VIDEO
Y/CVBS, C
( ) For 32" only
1M36 (1304)
FRONT_Y-CVBS, FRONT_C

B16B MISCELLANEOUS: PART 2
B16C MISCELLANEOUS: PART 3

BE2 EXTERNALS B
1E50
AV2-AV4_R-PR, AV2-AV4_B_PB, AV2_FBL, AV2-AV4_G-Y, CVBS-TER-OUT, AV2_Y-CVBS, AV2_C, C-MON-OUT, Y-CVBS-MON-OUT, AV2_STATUS, AV1-AV5-AV6_R-PR, AV1-AV5-AV6_B-PB, AV1-AV6_FBL-HSYNC, AV1-AV5-AV6_G-Y, AV1_CVBS, AV1-STATUS, REGIBEAU

BE1 EXTERNALS A
SCART 2 1I102 EXT2
SCART 1 1I101 EXT1
7O00
7O10
AV2_FBL, C-MON-OUT, AV2-AV4_R-PR, AV2_C, AV2-AV4_B-PB, AV2-AV4_G-Y, AV2-STATUS, AV2_FBL, AV2_Y-CVBS, Y-CVBS-MON-OUT, CVBS-TER-OUT, AV1-AV5-AV6_B-PB, AV1-STATUS, AV1-AV5-AV6_G-Y, AV1-AV5-AV6_R-PR, AV1-AV6_FBL-HSYNC, CVBS, AV1-CVBS

G_15990_174.eps 120506

Block Diagram Audio

AUDIO

B2A TUNER MAIN

1W05 TD1316AF

MAIN TUNER

RF IN

IF_OUT1

SDA SCL

2W91

IF-TER-MAIN

IF-TER2

IF-TER-SUB

9M8D ONLY NON DUAL WINDOW

(ONLY DUAL WINDOW)

B2B

7W17 TDA10046AHT

CHANNEL DECODER

FE-DATA

B10A

7P03 STV0701

COMMON INTERFACE HARDWARE CONTROLLER

(ONLY DVBT)

B10C

7P76 7P77

BUFFER

To DV1F B7C VIPER

CONDITIONAL ACCES

PCMCIA

B3A I/O: PART1

1T03 UV1318ST

SUB TUNER

IFOUT

2T21 3T22 7T11 EF 3T24 IF-TER-SUB

B16a

B11A I/O: PART1

AUDIO IN L+R

1I11

AUDIO-IN4-L

AUDIO-IN4-R

B4d,h

AUDIO IN L+R+DIG

1I01

AUDIO-IN3-L

AUDIO-IN3-R

SPI-1

AUDIO OUT L+R+DIG

1I00

AUDIO-OUT3-L

AUDIO-OUT3-R

SPI-OUT

B4d

B14c

B5C A-PLOP

A-PLOP

D SIDE I/O

B16B MISCELANEOUS PART 2

AUDIO IN L+R

1002

1M36 (1403)

L

R

( ) For 32" only

AUDIO-IN5-L

AUDIO-IN5-R

BE2 EXTERNALS I/0 2

1E50

AUDIO-OUT2-R

AUDIO-OUT2-L

AUDIO-IN2-R

AUDIO-IN2-L

AUDIO-OUT1-R

AUDIO-OUT1-L

AUDIO-IN1-R

AUDIO-IN1-L

B4h

B16C MISCELANEOUS PART 3

B15D AUDIO: CENTRE INPUT SW FILTER

AUDIO CENTER IN RES

1I03

CC-IN2

CC-IN1

1M70

7D33

AUDIO-CENTER-IN

N.C.

BE1 EXTERNALS A

SCART 2X

1I02

EXT2

AP-SCART2-OUT-R

AP-SCART2-OUT-L

1I01

EXT1

AP-SCART1-OUT-R

AP-SCART1-OUT-L

B16A

B4 MPIF MAIN:

7C00 PNX3000HL

MPIF MAIN

B4C IF

SIFINP

SIFINN

SEE ALSO BLOCKDIAGRAM VIDEO

B4A DATA LINK

DATA LINK 1

DATA LINK 2

DATA LINK 3

7C54÷7C55

CONTROL

1C51

SEL-IF-LL2

B7A

B4D AUDIO SOURCE SELECTION

DLINK1

DLINK2

LPF

A/D

AUDIO SWITCH (DIGITAL OUT)

AUDIO AMPS

DSND

AM SOUND

AUDIO SWITCH (ANALOG OUT)

LINE / SCART L/R

AUDIO-IN1-R 85

AUDIO-IN1-L 86

AUDIO-IN2-R 83

AUDIO-IN2-L 84

AUDIO-IN3-R 81

AUDIO-IN3-L 82

AUDIO-IN4-R 79

AUDIO-IN4-L 80

AUDIO-IN5-R 128

AUDIO-IN5-L 127

AUDIO-OUT1-R 69

AUDIO-OUT1-L 70

AUDIO-OUT2-M-R 65

AUDIO-OUT2-M-L 66

AUDIO-OUT3-R 67

AUDIO-OUT3-L 68

AUDIO-CENTER-IN 17

B16A IF-TER-SUB

IF-TER1

1A51

7A54÷7A55

SEL-IF-LL1

7A00 PNX3000HL

MPIF SUB

B4G IF

B4H AUDIO SOURCE SELECTION

(ONLY FOR DUAL WINDOW SETS)

B5 PNX2015

7J00 PNX2015E

B5A

AVIP MAIN

INPUT CROSSBAR

PROCESSING

OUTPUT CROSSBAR

DEMDEC

DAC

AVIP SUB

PNX2015

ANALOG OUT

DSNDR2 AC3

DSNDL2 AD3

DSNDR1 AE3

DSNDL1 AF3

CLK-MPIF M4

B11B I/O: PART2

B7 VIPER

7V00 PNX8550EH

B7C A/V + TUNNELBUS

SPI-1 SPI-2 IO-EXP-1-2 SPI-OUT

7I04 7I03

SPDIF-IN1 AC30

SPDIF-OUT1 AB29

I2S_IN1_WS T29 I2S-WS-MAIN V3

I2S_IN1_SCK T30 I2S-BCLK-MAIN V2

I2S_IN2_SD W28 I2S-MAIN-ND W3

I2S_IN1_SD AA30 I2S-SUB-ND W4

I2S_IN2_SCK AA28 I2S-BCLK-AVIP Y2

I2S_IN1_WS AA29 I2S-WS-AVIP Y3

I2S OUT

VIPER

I2S_OUT2_SD0 T28 I2S-MCH-LR U2

I2S_OUT2_SD1 T27 I2S-MCH-CSW U3

I2S_OUT2_SD2 R30 I2S-MCH-SLR U4

I2S_OUT1_SD0 U27 I2S-SUB-D V5

I2S_OUT2_SD3 R29 I2S-MAIN-D V4

I2S_OUT1_SCK W30 I2S-BCLK-SUB U1

I2S_OUT1_WS V27 I2S-WS-SUB U5

I2S IN

SPDIF-IN2 AA27 SPDIF-HDMI

B7B VIPER: MAIN MEMORY

7V02 7V01

K4D551638F 2X DDR SDRAM 8Mx16

MM_DATA

MM_A(0-12)

B7B MAIN MEMORY

B9A HDMI

1B01

HDMI CONNECTOR

ARX2+

1B02

BRX2+

AUDIO MULTIPLEXED WITH VIDEO SEE ALSO BLOCKDIAGRAM VIDEO

B9B HDMI: I/O + CONTROL

7B11 TDA9975

HDMI PANELLINK RECEIVER

RX2+ RX2-

RX1+ RX1-

RX0+ RX0-

RXC+ RXC-

Termination Resistance Control

Audio Formatter

Audio PLL

Audio FIFO

HDMI receiver

HDCP

Packet extraction

A7 SPDIF-HDMI

DV4-DATA

DV5-DATA

DV INPUT

B4I MPIF SUB: AUDIO AMPLIFIER

AH1 ADAC1 7A03-1

AG1 ADAC2 7A03-4

AE1 ADAC4 7A03-2

AB1 ADAC7 7A04-1

AA1 ADAC8 7A04-2

B15A AUDIO: LEFT / RIGHT

AUDIO-L 7D10-02

AUDIO-R 7D10-03

7D14÷7D17 CONTROL

+AUDIO-POWER 7D18-1

7D18-2

-AUDIO-POWER

3D19

7D10-1 7D10-4

7D11÷7D12 CONTROL

LEFT-OUTPUT

PROT-AUDIOSUPPLY

RIGHT-SPEAKER

7D30÷7D34 CONTROL

7D35-1 7D35-2

3D23

B5A SOUND-ENABLE

B4E AUDIO-PROT

MUTE

7D26 CONTROL

INV-MUTE

B15C AUDIO: CONNECTIONS

5D01 5D00 1736

LEFT SPEAKER

*1M02

TO SUPPLY

5D03 5D02 1735

RIGHT SPEAKER

B15D AUDIO: CENTRE INPUT / SW FILTER

AUDIO-SW 7D33-1

7D33-3

B15B AUDIO: SUBWOOFER

OUT 7D40-02

OUTN 7D40-1

7D44÷7D47 CONTROL

7D48-1 7D48

+SUB-OUTPUT

-SUB-OUTPUT

7D49÷7D52 CONTROL

7D53-1 7D53-2

MUTE

5D04 5D05 1738

SUB WOOFER (OPTIONAL)

(OPTIONAL)

B11B I/O PART 2

AUDIO-HDPH-L 3I80 7I81

AUDIO-HDPH-R 3I60 7I60

B5C A-PLOP

CONTROL

B16B MISCELANEOUS PART 2

AUDIO-HDPH-L-AP

AUDIO-HDPH-R-AP

1M36

SOUND L-HEADPHONE-OUT

SOUND R-HEADPHONE-OUT

1010

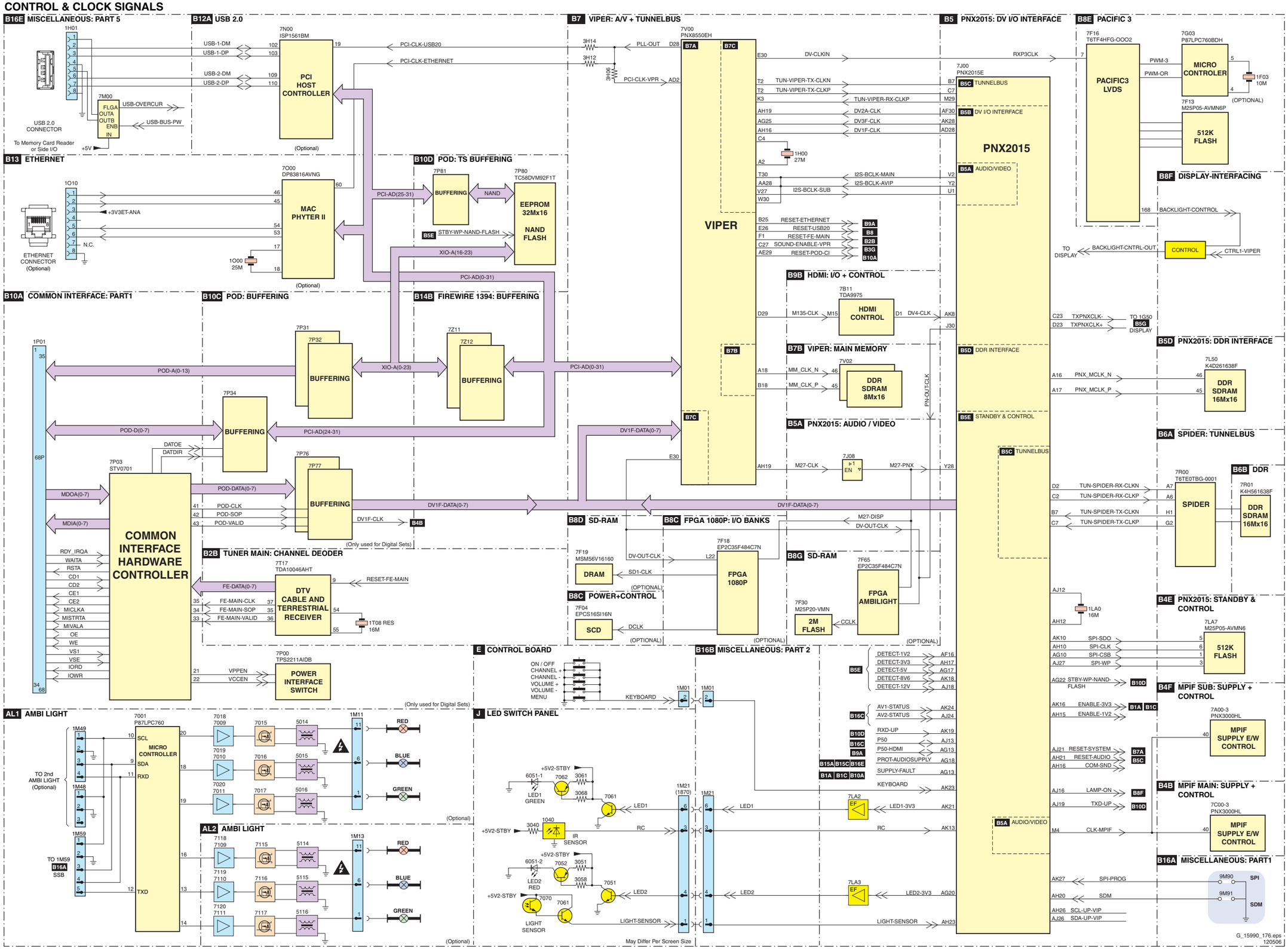
Headphone Out 3.5mm

D SIDE I/O

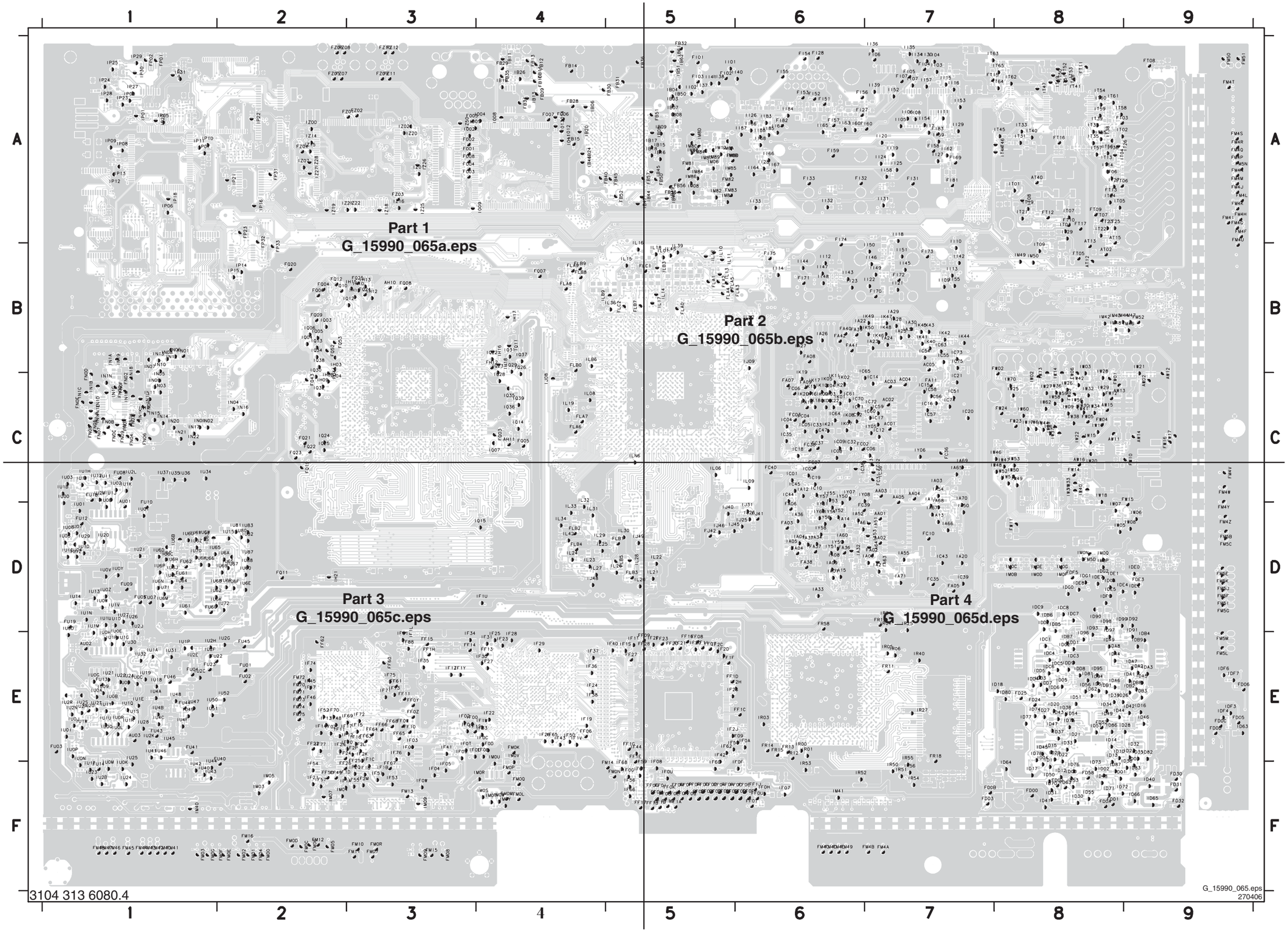
G_15990_175.eps
120506

Block Diagram Control & Clock Signals

CONTROL & CLOCK SIGNALS



Test Point Overview SSB (Bottom Side)



3104 313 6080.4

Test Point Overview SSB (Mapping)

A01 E1	F074 A2	F201 E9	F328 E5	FB52 A5	FI54 A6	FM83 A5	FZ12 A3	I132 D1	I259 E1	I386 A1	I513 C6	I640 E2	I767 E8	I907 C7	IA60 D6	ID48 F8	IF1D F2	II40 A6	IM0P D8	IQ36 C4	IU1Q E1	IW37 C8
A02 E1	F075 A3	F202 E9	F329 E3	FB55 A5	FI55 A6	FM84 A5	I001 C5	I133 D2	I260 E1	I387 A1	I514 C6	I641 F3	I768 E8	I908 C7	IA61 D6	ID49 E8	IF1L E3	II41 A5	IM0Q D8	IQ37 B4	IU1R E1	IW38 C8
A03 D1	F076 A3	F203 D9	F330 E3	FB56 A5	FI56 A6	FN01 B1	I002 B6	I134 D2	I261 E1	I388 A2	I515 C6	I642 E4	I769 E9	I909 C6	IA63 D7	ID50 F8	IF1S E5	II42 B7	IM0R F4	IQ38 B2	IU1S E1	IW39 C8
A04 C7	F077 A3	F204 D9	F331 E4	FB57 A5	FI57 A6	FN02 C1	I003 B5	I135 D1	I262 F1	I389 A2	I516 C6	I643 E2	I770 E8	I910 C6	IA64 D7	ID51 E8	IF1T E5	II43 B6	IM0S F4	IQ39 C4	IU1T F1	IW40 C8
A05 C7	F078 C8	F205 D9	F332 E3	FC02 C6	FI58 A7	FN03 C1	I004 B4	I136 D1	I263 E1	I390 A1	I517 C6	I644 E2	I771 E9	I911 C6	IA65 C7	ID53 F8	IF1U D4	II44 B6	IM0T F4	IR00 E6	IU1U E1	IW41 C8
A06 C7	F079 C8	F206 D9	F333 E3	FC03 C6	FI59 A6	FN04 C1	I005 B5	I137 D1	I264 D1	I391 A1	I518 C6	I645 E2	I772 E8	I912 C6	IA66 D7	ID54 E8	IF1V E4	II45 B7	IM0U E4	IR01 E6	IU1V D1	IW42 C8
A07 C7	F080 C9	F207 D9	F334 E3	FC04 C6	FI60 A7	FN05 C1	I006 B5	I138 D1	I265 E1	I392 A1	I519 C6	I646 E2	I773 E9	I913 C6	IA67 D7	ID55 F8	IF1W E4	II46 B7	IM0V E4	IR03 E6	IU1W E1	IW44 C8
A08 C7	F081 C9	F208 D9	F335 E3	FC06 C6	FI69 A7	FN06 C1	I007 D4	I139 D1	I266 D1	I393 A2	I520 C6	I647 E5	I774 E9	I914 A5	IA68 C7	ID56 E8	IF1Y E3	II47 B6	IM0W F4	IR04 D7	IU1Y E1	IW46 C8
A09 D7	F082 D9	F209 D8	F336 E3	FC07 C6	FI70 B7	FN07 C1	I008 D4	I140 D1	I267 D1	I394 B2	I521 C6	I648 E4	I775 E9	I915 A5	IA69 C7	ID57 E8	IF1Z E3	II48 B6	IM0Y F4	IR05 E7	IU1Z D1	IW47 C8
A10 C8	F083 C8	F210 D9	F337 D8	FC10 D7	FI71 B6	FN08 C1	I009 D4	I141 D1	I268 F1	I395 B2	I522 C6	I649 F5	I776 D8	I916 A5	IA70 C7	ID61 E8	IF20 E5	II49 B7	IM12 A5	IR06 E7	IU20 D1	IW48 C8
A11 C8	F084 C8	F211 D9	F338 D9	FC31 C7	FI72 B7	FN09 C1	I010 D4	I142 D7	I269 F1	I396 A1	I523 C6	I650 E3	I777 D8	I917 A5	IA71 D7	ID62 E8	IF21 F2	II50 B7	IM40 F1	IR24 D7	IU21 E1	IW49 C8
A12 C9	F085 D8	F212 B9	F339 F8	FC32 C7	FI73 B7	FN0A C1	I011 D5	I143 A3	I270 F1	I397 A1	I524 C6	I651 E5	I778 E8	I918 A5	IB03 A5	ID63 E9	IF22 E4	II51 B7	IM41 F6	IR25 D7	IU22 E1	IW50 C8
A13 C8	F086 C9	F213 A9	F340 F8	FC35 D7	FI74 A6	FN0B C1	I012 D4	I144 E1	I271 E1	I398 A1	I525 C6	I652 E4	I779 E8	I919 A5	IB04 A5	ID64 F8	IF23 E4	II52 A7	IM42 B8	IR27 E7	IU23 F1	IW51 C8
A14 C9	F087 C8	F214 A9	F341 E8	FC36 C7	FI75 B6	FN0C C1	I013 D5	I145 E1	I272 E1	I399 A1	I526 C6	I653 E4	I780 E8	I920 A5	IB05 A5	ID65 F9	IF24 E4	II53 A7	IM43 B8	IR40 E7	IU24 F1	IW52 C8
A15 C8	F088 C8	F215 D9	F342 F9	FC37 C6	FI81 A7	FN0D C1	I014 D4	I146 E1	I273 D1	I400 A1	I527 C6	I654 E4	I781 E8	I921 A5	IB06 A4	ID66 F9	IF25 E4	II54 A7	IM44 B8	IR50 F7	IU25 E1	IW53 C8
A16 C9	F089 C8	F216 C9	F343 F9	FC38 C6	FI82 A6	FN0E C1	I015 D5	I147 E1	I274 D1	I401 A1	I528 C6	I655 E3	I782 E8	I922 A4	IB07 A5	ID70 F8	IF26 E4	II55 B7	IM46 B9	IR51 F7	IU26 D1	IW56 C8
A17 A8	F090 C8	F217 C9	F344 F9	FC39 D6	FI83 A7	FN0F C1	I016 D4	I148 E1	I275 E1	I402 A1	I529 C6	I656 E3	I783 D9	I923 A4	IB08 A5	ID71 F8	IF27 E4	II57 A7	IM47 B9	IR52 F6	IU27 D1	IW58 C8
A18 A8	F091 C8	F218 C9	F345 E8	FC40 C6	FJ41 D6	FN0G C1	I017 D4	I149 E1	I276 E1	I403 A1	I530 C6	I657 E4	I784 E9	I924 A4	IB09 A5	ID72 F8	IF28 E4	II58 A7	IM48 B8	IR53 F6	IU28 E1	IW59 C8
A19 B8	F092 C8	F219 B9	F346 E8	FD00 F8	FJ42 D5	FN0H C1	I018 D4	I150 E1	I277 F1	I404 A1	I531 A6	I658 E4	I785 D8	I925 A4	IB11 A4	ID73 F8	IF29 E4	II59 A7	IM49 B8	IR54 F7	IU29 D1	IW60 C8
A20 B8	F093 D1	F220 A9	F347 E9	FD01 F8	FLA0 B5	FO01 A3	I019 D5	I151 E1	I278 E1	I405 A1	I532 A6	I659 E4	I786 F8	I926 A5	IB13 A4	ID74 E8	IF2C E5	II60 A6	IM50 B8	IR55 E7	IU2A E1	IW61 C8
A21 B8	F094 D1	F221 A9	F348 E9	FD02 F8	FLA1 B5	FO02 A3	I020 D5	I152 E1	I279 D1	I406 A1	I533 A6	I660 F3	I787 E8	I927 A5	IB15 A5	ID75 E8	IF2D E5	II61 A6	IM82 A5	IR56 F7	IU2B F1	IW62 C8
A22 C4	F095 D1	F222 A9	F349 F7	FD03 F7	FLA2 B5	FO03 A3	I021 D5	I153 E1	I280 E1	I407 A4	I534 A6	I661 E3	I788 F9	I928 A5	IB16 A5	ID76 F8	IF2F E5	II62 A7	IM83 A5	IT01 A8	IU2C E1	IW63 C8
A23 B3	F096 E1	F223 A9	F350 F8	FD05 E9	FLA3 B6	FO04 A3	I022 B5	I154 D1	I281 D1	I408 A4	I535 A6	I662 E2	I789 E9	I929 A5	IB17 A5	ID77 E8	IF2G E5	II63 A6	IM84 A5	IT02 A8	IU2E E1	IW70 C8
A24 B7	F097 E2	F224 A9	F351 E9	FD06 E9	FLA4 B5	FO05 A3	I023 B5	I155 E1	I282 C1	I409 A4	I536 A6	I663 F3	I790 E8	I930 A4	IB18 A5	ID78 E8	IF2H E6	II64 A6	IM85 A5	IT03 A8	IU2F E1	IY05 C7
A25 C7	F098 E1	F225 A9	F352 E9	FD0A F8	FLA5 B5	FO06 A4	I024 B5	I156 D2	I283 C1	I410 A4	I537 A6	I664 E3	I791 E8	I931 A4	IB19 A4	ID80 E8	IF2J E5	II65 A6	IM86 A5	IT04 A8	IU2G E2	IY06 C7
A26 C7	F099 E1	F226 A9	F353 F7	FD0B F7	FLA6 C4	FO07 A4	I025 B5	I157 B7	I284 C1	I411 A3	I538 A6	I665 E3	I792 E8	I932 A5	IB20 A4	ID81 E8	IF2K E3	II66 A6	IM87 A5	IT05 A8	IU2H E1	IY07 C6
A27 D7	F100 E1	F227 A9	F354 F8	FD0C E9	FLA7 C4	FO08 A3	I026 B5	I158 B6	I285 E1	I412 A4	I539 A6	I666 E5	I793 E8	I933 A5	IB24 A4	ID82 E9	IF2L E3	II67 A6	IM88 A5	IT06 A8	IU2I D1	IY08 C6
AA01 D7	F101 F2	F228 A9	F355 F8	FD0D E9	FLA8 B4	FP01 A1	I027 D2	I159 A2	I286 E1	I413 A3	I540 A6	I667 E6	I794 F8	I934 A5	IB26 A4	ID83 F9	IF2M F3	II68 A6	IM89 A5	IT07 A8	IU2J D1	IY50 C6
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AA04 C7	F104 E1	F231 A9	F358 D6	FD30 F9	FLB1 D5	FP31 A2	I030 B5	I162 A3	I289 C1	I416 C1	I543 A7	I670 E5	I797 F8	I937 A5	IB46 A4	ID90 D8	IF2Q F3	II85 A6	IM8C A5	IT13 A8	IU2M C1	IY53 C6
AA05 C7	F105 D1	F232 A9	F359 C6	FD31 F9	FLB2 D4	FP32 A2	I031 C4	I163 A3	I290 A8	I417 C1	I544 A6	I671 E5	I798 F8	I938 A5	IB47 A5	ID91 D9	IF30 E4	II86 A6	IM8D A5	IT14 A8	IU2N E1	IY54 D6
AC01 C7	F106 C1	F233 A9	F360 C6	FD32 F9	FLB3 D5	FP33 B2	I032 D4	I164 A2	I291 A8	I418 C1	I545 A6	I672 E4	I799 F8	I939 D7	IB48 A5	ID92 D9	IF31 E4	II87 A6	IN01 C1	IT19 A8	IU2P E1	IY55 C6
AC02 C7	F107 F1	F234 F6	F361 C7	FD52 E8	FLB4 D4	FQ03 C4	I033 C5	I165 A3	I292 A7	I419 C1	I546 A7	I673 E4	I800 F8	I940 D7	IB49 A5	ID93 D8	IF33 E4	II88 A6	IN02 C1	IT21 A8	IU2R E1	IY56 D6
AC03 C7	F108 E1	F235 F6	F362 D7	FD58 F8	FLB5 D5	FQ04 B2	I034 B5	I166 A3	I293 A8	I420 C1	I547 A7	I674 E4	I801 F9	I941 C7	IB50 A5	ID94 E8	IF34 E3	IJ08 C4	IN03 C1	IT22 A8	IU2S E1	IY57 C6
AC04 C7	F109 D1	F236 F6	F363 C7	FD63 F8	FLB7 B5	FQ05 C4	I035 D5	I167 D6	I294 A8	I421 C1	I548 A7	I675 E4	I802 F9	I942 D7	IB51 A5	ID95 E8	IF35 E3	IJ09 B6	IN04 C2	IT23 A8	IU2T E1	IY58 D6
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AH10 B3	F111 D1	F238 F7	F365 D7	FDF5 D8	FLB9 B4	FQ07 B4	I037 B5	I169 D6	I296 A8	I423 C1	I550 A7	I677 E4	I804 E9	I944 D7	IB62 A5	ID97 D8	IF37 E4	IJ26 D6	IN06 B1	IT25 A8	IU31 E1	IY60 D6
AH11 C4	F112 C1	F239 F6	F366 C6	FF00 F5	FLC1 B5	FQ08 B3	I038 D5	I170 D6	I297 A8	I424 C1	I551 A7	I678 E4	I805 E8	I945 C7	IC01 C6	ID98 D8	IF38 E4	IJ31 D6	IN07 B1	IT26 A9	IU32 E1	IY61 D6
AT02 B8	F113 D1	F240 F1	F367 C6	FF01 F5	FLC2 B5	FQ09 B2	I039 D5	I171 D6	I298 A8	I425 C1	I552 A7	I679 E4	I806 E8	I946 D7	IC02 C6	ID99 D8	IF40 E5	IJ40 D5	IN08 B1	IT27 A8	IU34 C1	IZ00 A2
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AT15 A8	F116 A8	F243 F1	F370 C6	FF04 F5	FM02 F2	FQ12 B2	I042 B5	I174 D6	I301 A8	I428 C1	I555 B7	I682 E3	I809 F8	I949 D6	IC06 C7	IDA3 E9	IF43 E4	IJ48 D4	IN11 C1	IT33 A8	IU37 C1	IZ07 A2
AT40 A8	F117 A8	F244 F1	F371 A5	FF05 F5	FM03 F1	FQ19 C2	I043 D5	I175 D6	I302 A8	I429 C1	I556 B6	I683 E4	I810 E8	I950 D7	IC08 C6	IDA4 E8	IF44 E5	IJ49 D5	IN12 B1	IT35 A8	IU40 F1	IZ14 A2
AU01 C1	F118 A7	F245 F1	F372 A5	FF06 E4	FM04 F2	FQ20 B2	I044 D6	I176 D6	I303 A8	I430 C1	I557 B6	I684 E4	I811 F8	I951 C7	IC09 C6	IDA5 E9	IF45 E2	IK01 C6	IN13 B1	IT36 A8	IU41 E1	IZ15 A2
AU02 E1	F119 A8	F246 F1	F373 A5	FF07 E5	FM05 F2	FQ21 C2	I045 D6	I177 D6	I304 A8	I431 C1	I558 B7	I685 D4	I812 E8	I952 D7	IC10 C6	IDA6 E8	IF46 E2	IK02 C6	IN14 C1	IT37 A8	IU42 F1	IZ16 A3
AU03 E1	F120 A8	F247 F1	F374 A5	FF08 E5	FM06 F2	FQ22 C2	I046 D6	I178 D6	I305 A8	I432 C1	I559 B7	I686 E5	I813 F8	I953 D6	IC12 C7	IDA7 E9	IF47 E2	IK03 C6	IN15 C1	IT38 A8	IU43 F1	IZ18 A3
AW02 C9	F121 A8	F248 F1	F375 A5	FF09 E5	FM07 F3	FQ23 C2	I047 B6	I179 C6	I306 A8	I433 B1	I560 B6	I687 E5	I814 E8	I954 D7	IC14 C7	IDA8 E8	IF48 E2	IK04 C6	IN16 C2	IT39 A8	IU44 E1	IZ19 A2
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AW14 C9	F125 A8	F252 F3	F379 A5	FF0D F6	FM0D F2	FQ44 C2	I051 E1	I183 C8	I310 A8	I437 C2	I564 A6	I691 F3	I818 E8	I959 D6	IC18 C6	IDB3 E9	IF53 F3	IK08 C6	IN1A B1	IT45 A8	IU48 E1	IZ25 A3
AW15 C8	F126 A8	F253 F2	F380 A4	FF0E F6	FM0E F2	FQ52 B2	I056 C1	I184 C8	I311 A8	I438 C1	I565 A7	I692 F2	I819 E8	I960 D6	IC19 C6	IDB4 E9	IF54 F2	IK09 C6	IN1B C1	IT46 A8	IU49 E1	IZ26 A3
AW16 C8	F127 B8	F254 F3	F381 A4	FF0F F6	FM0F F2	FQ53 B2	I063 D1	I185 C8	I312 A8	I439 C1	I566 A5	I693 F3	I820 E8	I961 B7	IC20 C7	IDB5 D8	IF55 F3	IK10 C6	IN1C C1	IT47 A8	IU4A E1	IZ27 A2
F001 B5	F128 A8	F255 F3	F382 A5	FF0G F5	FM0G F1	FR10 D7	I065 E1	I186 C8	I313 A8	I440 B1	I567 A5	I694 E2	I821 E9	I962 B7	IC21 C7	IDB6 D8	IF56 F5	IK11 C6	IN1D C1	IT48 A8	IU4B E1	IZ28 A2
F002 B5	F129 D6	F256 F3	F383 A5	FF0H F5	FM0K E4	FR11 E7	I066 C1	I187 C8	I314 A8	I441 B1	I568 A7	I695 E3	I822 F8	I963 B7	IC32 C6	IDB7 E8	IF57 F2	IK15 C6	IN1E C1	IT49 A8	IU4C E1	IZ50 A3
F003 D5	F130 E7	F257 F4	F384 A4	FF0I F5	FM0L F4	FR12 E6	I067 E1	I188 C8	I315 A8	I442 C1	I569 A7	I696 E3	I823 F9	I964 B7	IC33 C6	IDB8 E9	IF58 E5	IK16 C6	IN1F C1	IT50 A8	IU4F E1	
F004 D4	F131 E6	F258 F4	F385 A4	FF0J F5	FM0M F4	FR13 E6	I068 D1	I189 C8	I316 A8	I443 B1	I570 A7	I697 E2	I824 E8	I965 B6	IC35 C6	IDB9 E9	IF59 F5	IK17 C6	IN1G C1	IT51 A8	IU50 E1	
F005 D5	F132 E6	F259 F5	F386 A4	FF0K F5	FM0N F5	FR14 E6	I069 D2	I190 C8	I317 A8	I444 C1	I571 A6	I698 E2	I825 E8	I966 B6	IC36 C7	IDC1 E8	IF60 F5	IK18 C6	IN1H C1	IT52 A8	IU51 E1	
F006 D4	F133 E6	F260 F4	F387 A4	FF0L F5	FM0P F4	FR15 E6	I070 D1	I191 C8	I318 A8	I445 B1	I572 A6	I699 E3	I826 E8	I967 B7	IC37 C7	IDC2 E8	IF61 E3	IK19 B6	IN1I C1	IT53 A8	IU52 E2	
F007 D5	F134 E6	F261 F4	F388 A4	FF0M F5	FM0Q F4	FR18 E7	I071 D1	I192 C8	I319 A8	I446 B1	I573 A7	I700 E2	I827 F9	I968 B7	IC38 C6	IDC3 E8	IF62 E5	IK20 C6	IN1J C1	IT54 A8	IU60 D2	
F008 B4	F135 E7	F262 E4	F389 A4	FF0N F5	FM0R F3	FR58 D6	I072 D1	I193 C8	I320 A8	I447 B1	I574 A7	I701 E3	I828 E9	I969 D7	IC39 D7	IDC4 E8	IF65 E4	IK21 C6	IN1K C1	IT55 A8	IU61 D1	
F009 C4	F136 D7	F263 F1	F390 A4	FF0P F5	FM10 F3	FT03 A8	I073 C1	I194 C8	I321 A8	I448 C1	I575 A7	I702 E2	I829 E8	I970 D7	IC43 D7	IDC5 E8	IF66 F5	IK22 C6	IN1L C1	IT56 A8	IU62 D1	
F010 C4	F137 B2	F264 F1	F391 A4	FF0Q F5	FM11 F3	FT05 B8	I074 C1	I195 C8	I322 A8	I449 C2	I576 A6	I703 F3	I830 E8	I971 D6	IC44 C6	IDC6 E8	IF67 F5	IK23 C6	IN1M C1	IT57 A8	IU63 D1	
F011 B5	F138 B2	F265 F2	F392 A4	FF0R F5	FM12 F2	FT06 A8	I075 D1	I196 C8	I323 A8	I450 C1	I577 A7	I704 F5	I831 E9	I972 D6	IC45 C6	IDC7 D8	IF68 F5	IK40 B7	IN1N C1	IT58 A8	IU64 D1	
F012 B5	F139 C2	F266 F2	F393 A4	FF0S F5	FM13 F3	FT07 A8	I076 D1	I197 C8	I324 A8	I451 C1	I578 A6	I705 E3	I832 F8	I973 D7	IC47 C6	IDC8 D8	IF69 E3	IK41 B7	IN1P C1	IT59 A8	IU65 D1	
F013 B5	F140 C2	F267 F2	F394 B6	FF0T F6	FM14 F5	FT08 A9	I077 D1	I198 C8	I325 A8	I452 C1	I579 A7	I706 E3	I833 F8	I974 C6	IC51 C7	IDC9 D8	IF70 E2	IK42 B7	IN20 C1	IT60 A8	IU66 D1	
F014 B5	F141 B3	F268 F3	F395 B6	FF0U F6	FM15 F3	FT09 A8	I078 D2	I199 C8	I326 A8	I453 A5	I580 A7	I707 F6	I834 E8	I975 D7	IC52 C6	IDD1 E8	IF71 E3	IK43 B7	IN21 C1	IT61 A8	IU67 D2	
F015 B5	F142 B3	F269 F3	F396 B6	FF0W E3	FM16 F2	FT10 A8	I079 D2	I200 C8	I327 A8	I454 A5	I581 B6	I708 F5	I835 E9	I976 D6	IC54 B7	IDD2 D8	IF72 E3	IK44 B7	IN22 C1	IT62 A8	IU68 D1	
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F017 D5	F144 C2	F271 F2	F398 D6	FF0Z E3	FM41 F1	FT12 A8	I081 D1	I202 C8	I329 A8	I456 A5	I583 B7	I710 E3	I837 E8	I978 C7	IC56 C7	IDD4 E8	IF74 E2	IK46 B7	IO04 A4	IT64 A8	IU6A D2	
F018 B5	F145 C2	F272 F2	F399 D6	FF10 E3	FM42 F1	FT13 A8	I082 D2	I203 C8	I330 A8	I457 A5	I584 A7	I711 E4	I838 E9	I979 D6	IC57 C7	IDD5 E8	IF75 E3	IK47 B7	IO05 A3	IT65 A8	IU6B D1	
F019 B4	F146 B2	F273 F2	F400 D6	FF11 E3	FM43 F1	FT15 A7	I083 E1	I204 C8	I331 A8	I458 A5	I585 A7	I712 E4	I839 F8	I980 A3	IC58 C7	IDD6 E8	IF76 E3	IK48 B7	IO08 A4	IU00 C1	IU6C D1	
F020 B4	F147 C2	F274 F1	F401 C7	FF12 E3	FM44 F1	FT16 A8	I084 E1	I205 C8	I332 B8	I459 A5	I586 A7	I713 E4	I840 E8	I981 A3	IC59 C7	IDD7 E8	IF77 E2	IK49 B7	IO09 A4	IU01 D1	IU6D D1	
F021 B4	F148 B2	F275 F2	F402 C6	FF13 E4	FM45 F1	FT17 A8	I085 E1	I206 C8	I333 A8	I460 A5	I587 A7	I714 E6	I841 E8	I982 A2	IC60 C7	IDD8 E8	IF88 E3	IK50 B7	IO11 A4	IU02 C1	IU6E D2	
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F023 B4	F150 B2	F277 F2	F404 B6	FF15 E3	FM47 F1	FU02 E2	I087 F1	I208 C8	I335 A8	I462 A5	I589 A7	I716 F5	I843 F8	I984 A2	IC63 B7	IDE0 D9	IH04 C2	IL06 C5	IO13 A4	IU04 D1	IU6H D1	
F024 E1	F151 B2	F278 A7	F405 C6	FF16 E5	FM48 F1	FU03 E1	I088 E1	I209 C8	I336 A8	I463 A5	I590 B6	I717 F6	I844 E9	I985 A3	IC64 C6	IDE1 D8	IH05 C2	IL08 C4	IO14 A4	IU05 D1	IU6J D1	
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F026 E2	F153 B4	F280 A7	F407 D7	FF18 F5	FM4A F7	FU05 D1	I090 E1	I211 C8	I338 A8	I465 B8	I592 B6	I719 F3	I846 E8	I987 A2	IC70 C6	IDE4 D8	IH10 B3	IL10 B5	IP01 A1	IU07 D1	IU6L D1	
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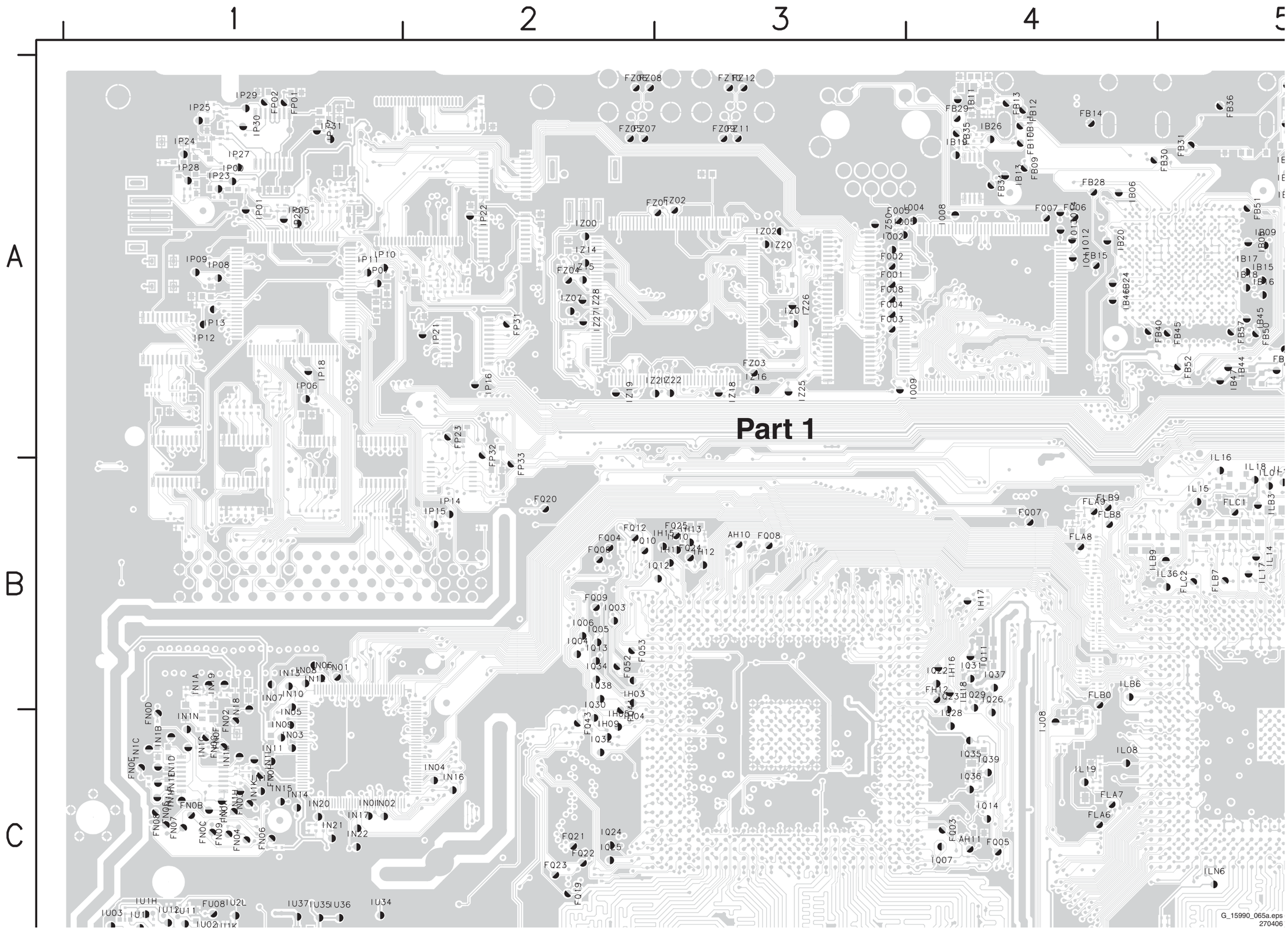
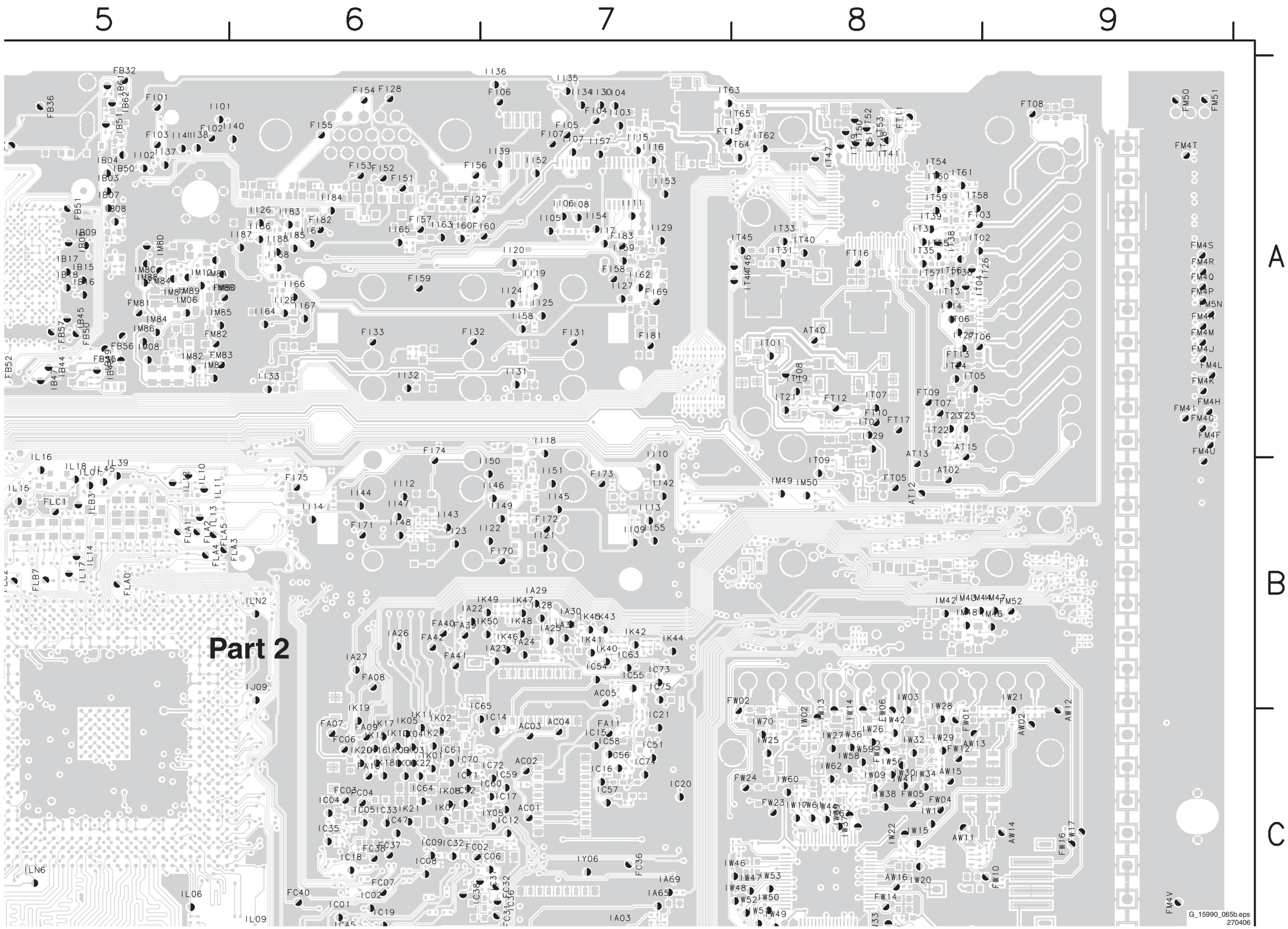
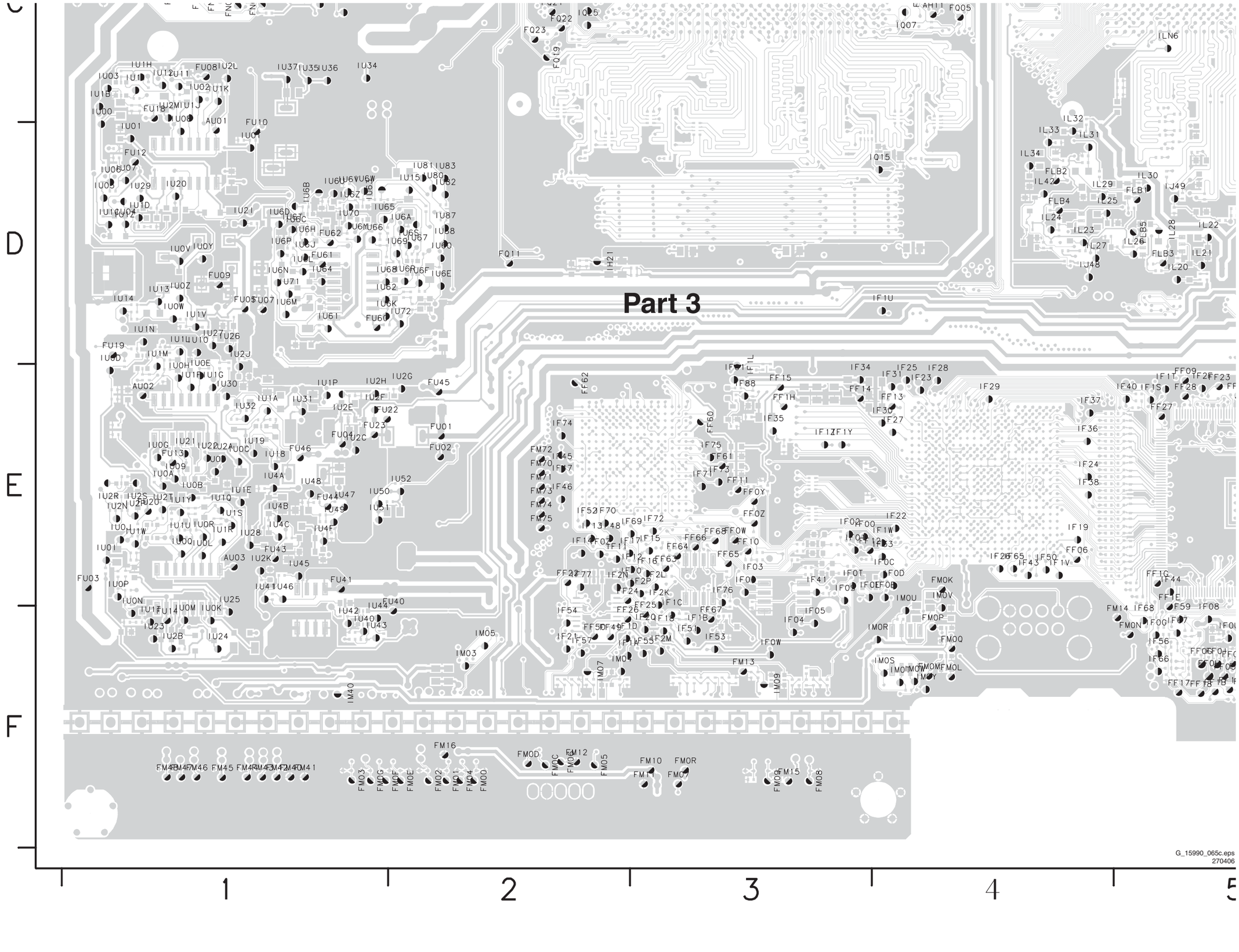
Test Point Overview SSB Part 1 (Bottom Side)



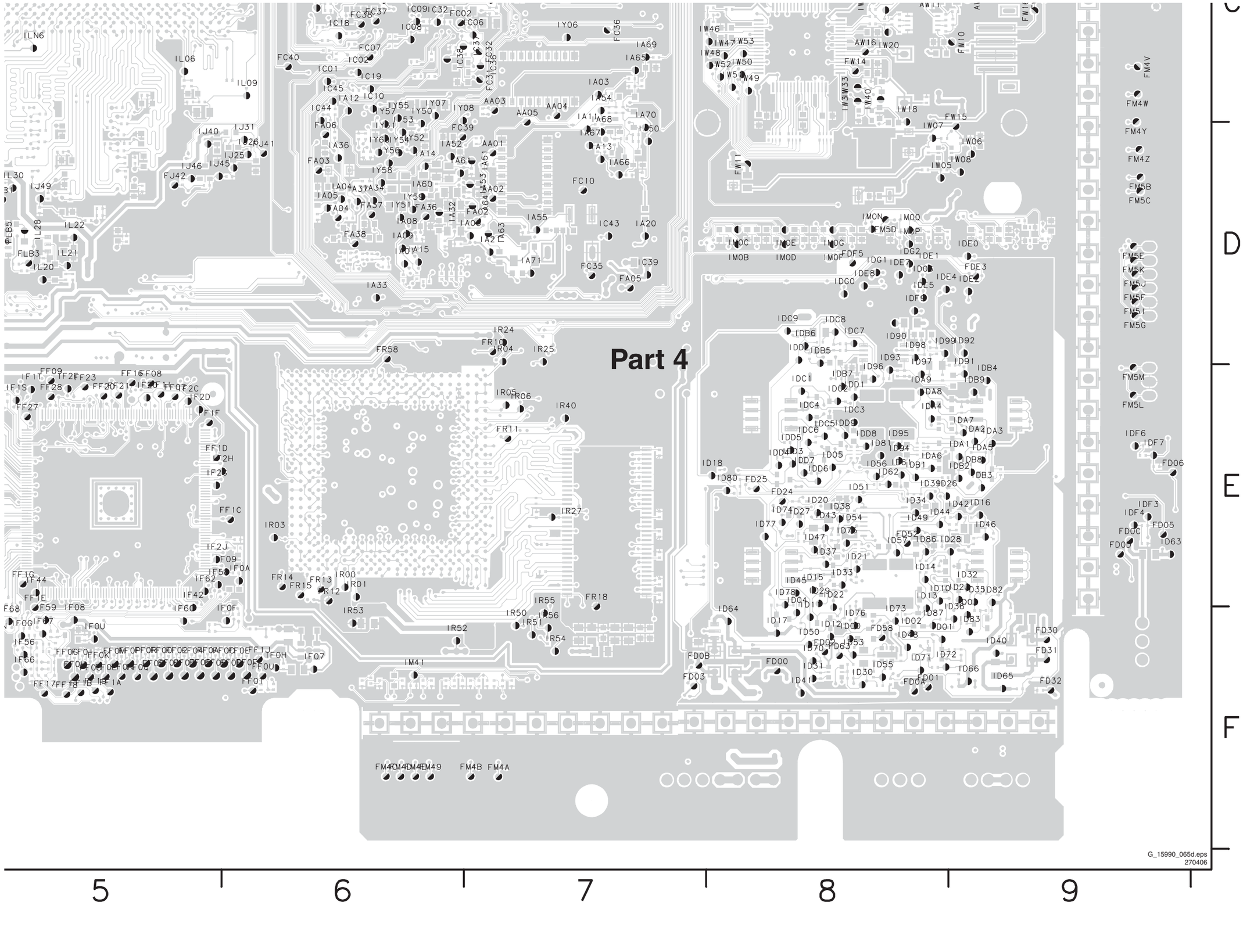
Test Point Overview SSB Part 2 (Bottom Side)



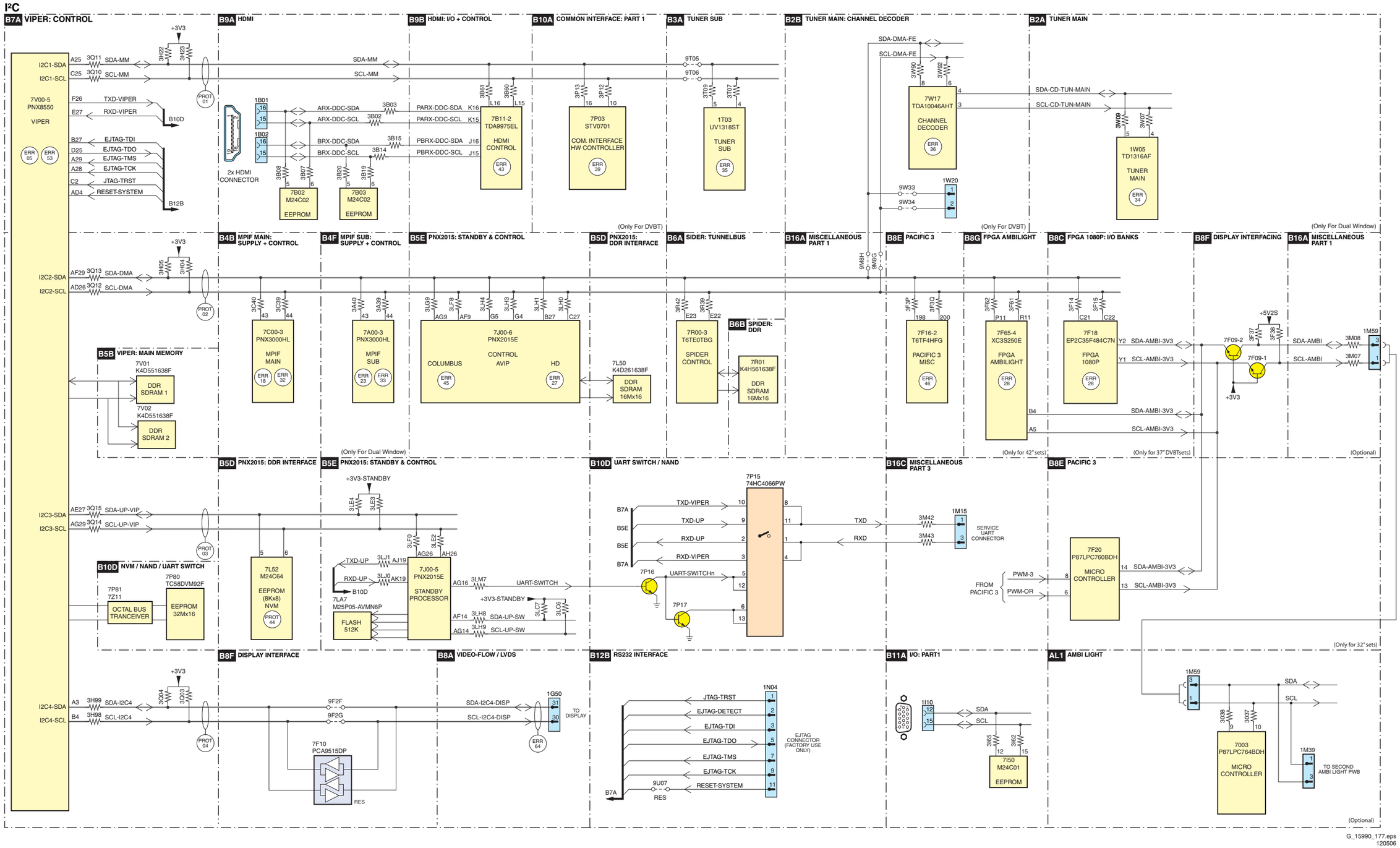
Test Point Overview SSB Part 3 (Bottom Side)



Test Point Overview SSB Part 4 (Bottom Side)



I2C IC's Overview



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Supply Lines Overview

SUPPLY LINES OVERVIEW

A SUPPLY

SEE ALSO BLOCK DIAGRAM SUPPLY

B16F MISCELLANEOUS: PART 6

1M46 — 5M40 +8V6 — 5M41 +12VS — 5M42 +5V — 5M44 +5V2 — 5M06 — 5M49

1M03 — 5M06 +5V — 5M22 +5V2-STBY_9V-STBY — N.C.

+3V3 +3V3 — +5V2S +5V2S

B16E MISCELLANEOUS: PART 5

B1A DC/DC: PART 1

+12VS — 1U04 — 1U01 — +12VSW — +12V-DC

7U04 L6910 — STEP DOWN CONTR. — 7U01-1 / 7U01-2 — 5U05 — **12V/1V2 COVERTER** — +1V2

7U05 L6910 — STEP DOWN CONTR. — 7U02-1 / 7U02-2 — 5U0D — **12V/2V5 COVERTER** — +2V5-PC — +2V8 — +2V5 — +2V5D

7U06 L6910 — STEP DOWN CONTR. — 7U03-1 / 7U03-2 — 5U01 — **12V/3V3 COVERTER** — +3V3

+5V +5V

B1B DC/DC: PART 2

+8V6 +8V6 — +8V6-SW

+12V-DC +12V-DC — VTUN GENERATOR — +VTUN

B1A — VSW

+5V +5V — +5V2S

B1C DC/DC: PART 3

+8V6 +8V6

7U64 L6910 — STEP DOWN CONTR. — 7U61-1 / 7U61-2 — 5U60 — **12V/5V-1V2 COVERTER** — +VDISP_+1V2FPGA

B2A TUNER MAIN

+5VREG +5VREG — 5W04 — +5VTUN-MAIN

+5V +5V — +33VREG +33VREG

1M02 — TO 1M02 B15d SSB

B2B TUNER MAIN: CHANNEL DECODER

+3V3 — 7W14 — +3V3 +1V8DVB-MAIN +3V3DVB-MAIN — 7W18

+5V — 5W08 — +5V

B3A TUNER SUB

+8V6-SW +8V6-SW

7T02 — +5VREG — 5T04 +5VTUN_SUB — 5T02 +5VTUN_MPIF

7T01 — 5T03 +5VTUN-SUB

+VTUN +VTUN — 3T06 3T16 — +33VREG — 5T01 +33VTUN-SUB

+5V +5V

B3B TUNER SUB: CHANNEL DECODER

+3V3 +3V3

7T14 — +1V8DVB-SUB — 7T19 — 5T08 +3V3DVB-SUB

+5V +5V

B4A MPIF MAIN: VIDEO SOURCE SELECT

+5VMPIF-MAIN +5VMPIF-MAIN

B4B MPIF MAIN: SUPPLY + CONTROL

+5V2S +5V2S

1C33 — +5VMPIF-MAIN

5C31 — 7C31-1 — VREF-AUD-POS

7C00 MPIF

+12VSW +12VSW

7C05 — IN OUT COM — +8V-AUD

+5VTUN_MPIF +5V-AUD

+8V6-SW +8V6-SW

3C31 — +8VMPIF-MAIN

B4C MPIF MAIN: IF + SAW FILTER

+8VMPIF-MAIN +8VMPIF-MAIN

5C52 — +8VaM

+5VMPIF-MAIN +5VMPIF-MAIN

3C51 — +5VbM — 5C54 — +5VaM

+5V-AUD +5V-AUD

+5VTUN_MPIF +5VTUN_MPIF

B4D MPIF MAIN: AUDIO SOURCE SELECTION

+5V-AUD +5V-AUD

+8V-AUD +8V-AUD

B4E MPIF SUB: VIDEO SOURCE SELECTION

+5VMPIF-SUB +5VMPIF-SUB

B4F MPIF SUB: SUPPLY + CONTROL

+8V6-SW +8V6-SW

3A31 — +8VMPIF-SUB

+5V2S +5V2S

1A33 — +5VMPIF-SUB

B4G MPIF SUB: IF + SAW FILTER

+8VMPIF-SUB +8VMPIF-SUB

5A52 — +8VaS

+5VMPIF-SUB +5VMPIF-SUB

5A54 — +5VaS

+5VTUN_MPIF +5VTUN_MPIF

+5V-AUD +5V-AUD

B4H MPIF SUB: AUDIO SOURCE SELECTION

+5V-AUD +5V-AUD

+8V-AUD +8V-AUD

B4I MPIF SUB: AUDIO AMPLIFIER

+5V2S +5V2S

+5V-AUD +5V-AUD

+12VSW +12VSW

B5A PNX2015: AUDIO / VIDEO

+1V2 +1V2

+3V3 +3V3

VREF-AUD-POS VREF-AUD-POS

B5C PNX 2015: TUNNELBUS

+2V5-N +2V5-N

3L28 3L26 — TUNN-REF

+2V5-S +2V5-S

3L22 3L20 — TUNS-REF

+12VSW +12VSW

+5V2 +5V2

B5D PNX 2015: DDR INTERFACE

+1V2 +1V2

+2V5-DDRPNX +2V5-DDRPNX

3J14 3J04 — VREF-DDR-PNX

+2V5 +2V5

5L52 — +2V5-DDR

3J15 3J17 — VREF-DDR-1V25

+3V3-STANDBY +3V3-STANDBY

B5E PNX 2015: STANDBY & CONTROL

+1V2-STANDBY +1V2-STANDBY

+12VSW +12VSW

+2V5 +2V5

+3V3 +3V3

+1V2 +1V2

+5V +5V

+3V3-STANDBY +3V3-STANDBY

+5V2 +5V2

+8V6-SW +8V6-SW

B5F PNX 2015: SUPPLY

+1V2 +1V2

5LN1 — PLL-1V2

+1V2-STANDBY +1V2-STANDBY

+3V3 +3V3

5LN0 — LVDS-PLL-3V3

5LA4 — PLL-3V3

5LN3 — LVDS-3V3

+3V3-STANDBY +3V3-STANDBY

5LN2 — UP-3V3

+2V5 +2V5

5LA8 — +2V5-N

5LA5 — +2V5-DDRPNX

5LA7 — +2V5-S

B6A SPIDER: TUNNELBUS

+2V5-SP-TUN +2V5-SP-TUN

+3V3-SP-GEN +3V3-SP-GEN

B6B SPIDER: DDR

+2V5-SP-DDR +2V5-SP-DDR

3R22 3R22 — VREFS

+2V5 +2V5

5R06 — +2V5-SPDDR

B6C SPIDER: SUPPLY

+1V5-SP-CORE +1V5-SP-CORE

+3V3 +3V3

5R02 — +3V3-SP-GEN

+2V5 +2V5

5R01 — +2V5-SP-DDR

5R05 — +2V5-SP-TUN

B6D SPIDER: DEBUG

+2V5 +2V5

7U03-1 — +1V5-SP-CORE

+3V3-SP-GEN +3V3-SP-GEN

+8V6-SW +8V6-SW

B7A VIPER: CONTROL

+3V3 +3V3

B7B VIPER: MAIN MEMORY

+2V5-VPR +2V5-VIPER

3V45 — VREF-DDR-VPR

+2V5D +2V5D

5V01 — +2V5D-DDR

3V24 — VREFD-DDR

B7C VIPER: A/V + TUNNELBUS

+3V3 +3V3

+2V5-VPR +2V5-VPR

3H50 — VREF-VPR

B7D VIPER: SUPPLY

1V2 1V2

+2V5 +2V5

5Q07 — +2V5-VPR

+3V3 +3V3

B8A VIDEO-FLOW / LVDS

VDISP VDISP

B8B FPGA 1080: POWER + CONTROL

+VDISP_+1V2FPGA +VDISP_+1V2FPGA

5F22 — +1V2-FPGA

5F0W — +1V2-PLL

+2V5-PF +2V5-PF

5F0D — +2V5-FPGA

+3V3 +3V3

5F83 — +3V3-FPGA

B8C FPGA 1080: I/O BANKS

+1V2-FPGA +1V2-FPGA

+1V2-PLL +1V2-PLL

+2V5-FPGA +2V5-FPGA

+3V3-FPGA +3V3-FPGA

B8D FPGA 1080: SD-RAM

+3V3 +3V3

5F0T — +3V3-SD1

B8E PACIFIC 3

+3V3 +3V3

5F0P — +3V3-P3

+1V5-P3-FPGA +1V5-P3-FPGA

5F0N — +1V5-P3

5F0Q — +1V5-PLL

5F11 — +1V5-TX

5F10 — +1V5-RX

+2V5-PF +2V5-PF

5F0R — +2V5-PR

5F0S — +2V5-PLL

B8F DISPLAY INTERFACING

+3V3-STANDBY +3V3-STANDBY

+5V2 +5V2

+8V6-SW +8V6-SW

+3V3 +3V3

+5V2S +5V2S

+VDISP_+1V2FPGA — CONTROL — VDISP +VDISP_+1V2FPGA

+12VSW

B8G FPGA AMBILIGHT

+3V3 +3V3

5F60 — +3V3M

+2V5-PF +2V5-PF

5F61 — +2V5M

+2V5-PC +2V5-PC

7F01 — +1V2-PF

5F62 — +1V2M

B9A HDMI

HDMI — 1B01 — AIN-5V

HDMI — 1B02 — BIN-5V

B9B HDMI: I/O + CONTROL

+3V3 +3V3

+3V3-DIG +3V3-DIG

B9C HDMI: SUPPLY

+3V3 +3V3

5B17 — +3V3-APLL

5B11 — 3V3-PLL

5B12 — 3V3-DIG

7B12 VOLT REG — +1V8

5B18 — +1V8-PLL

+5V +5V

7B06 IN OUT COM — +3V3-AV

5B10 — +3V3-AVI

B10A COMMON INTERFACE: PART 1

+3V3 +3V3

5P02 — VCC_EXTO

7P00 TPS2211 — POD-VPP

POD-VCC

+5V +5V

B10A COMMON INTERFACE: PART 2

+3V3 +3V3

B10C COMMON INTERFACE: PART 3

+3V3 +3V3

B10D UART SWITCH / NAND

+3V3 +3V3

+5V2 +5V2

B11A I/O: PART 1

+5V2 +5V2

B11B I/O: PART 2

+3V3 +3V3

+5V2 +5V2

+5V2S +5V2S

B12A USB 2.0

+3V3 +3V3

B12B RS232 INTERFCE

+5V2 +5V2

7N01 VOLT REG — +3V3-UART

B13 ETHERNET

+3V3 +3V3

5O00 — +3V3-ET-DIG

5O01 — +3V3-ET-ANA

B15A AUDIO: LEFT / RIGHT

+3V3-STANDBY +3V3-STANDBY

+AUDIO-POWER +AUDIO-POWER

5D12 — VP1

-AUDIO-POWER -AUDIO-POWER

5D15 — VN1

B15B AUDIO: SUBWOOFER

+AUDIO-POWER +AUDIO-POWER

5DE2 — VP2

-AUDIO-POWER -AUDIO-POWER

5D25 — VN2

B15C AUDIO: CONNECTIONS

1M02 — -AUDIO-POWER — +AUDIO-POWER

TO 1M02 SUPPLY

B15D AUDIO: SUBWOOFER

+AUDIO-POWER +AUDIO-POWER

-AUDIO-POWER -AUDIO-POWER

B16B MISCELLANEOUS: PART 2

+3V3-STANDBY +3V3-STANDBY

+5V2 +5V2

1M21 — TO 1M21 J LED

B16C MISCELLANEOUS: PART 3

+3V3-STANDBY +3V3-STANDBY

+8V6-SW +8V6-SW

1E50 — TO 1E50 B12 EXT.

B16D MISCELLANEOUS: PART 4

+5V2 +5V2

7M82 VOLT REG — +3V3-STANDBY

7F14 IN OUT COM — +2V5-PF

7M84 VOLT REG — +1V2-STANDBY

+2V5 +2V5

+2V5-PC +2V5-PC

7F17 IN OUT COM — +1V5-P3-FPGA

BE1 EXTERNAL I/O 1

+8V6-AIO +8V6-AIO

5O00 — 3O49 — +8V6

3O37 — VREF

BE2 EXTERNAL I/O 2

1E50 — +8V6-AIO +8V6-AIO — BE1

TO 1E50 B15c SSB

J LED SWITCH PANEL

1M21 — +5V2-STBY +5V2-STBY

TO 1M21 B15b SSB

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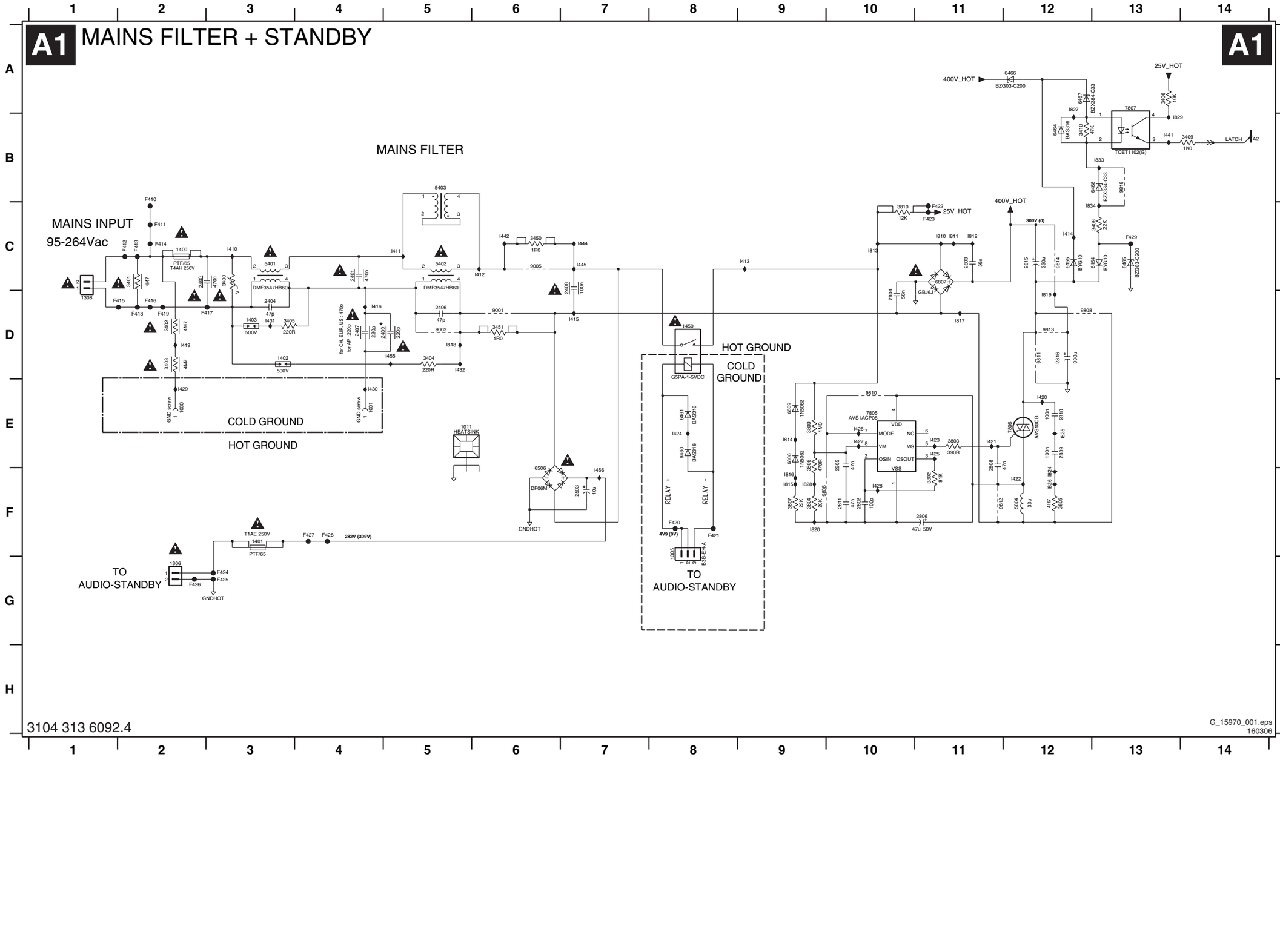
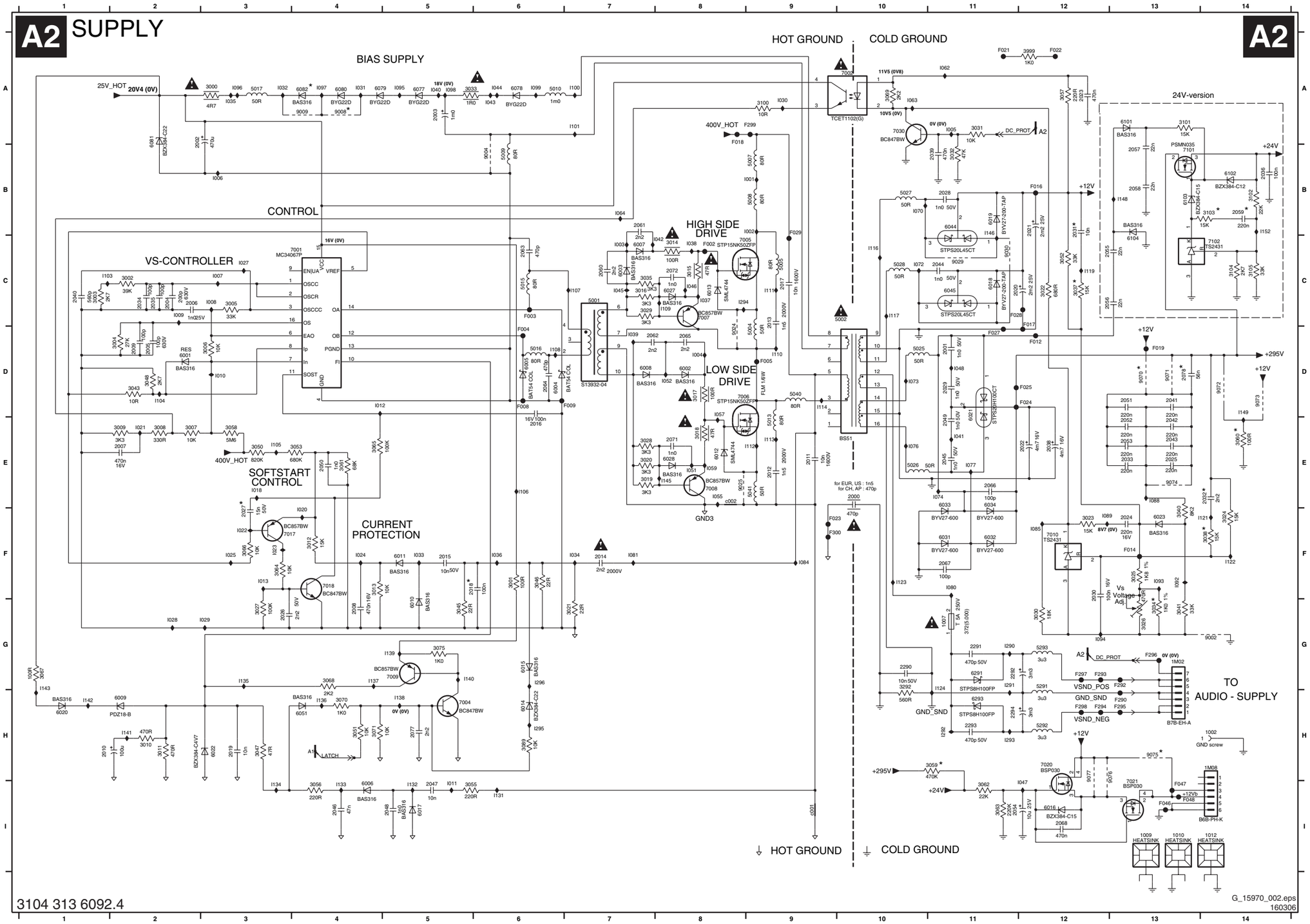
7. Circuit Diagrams and PWB Layouts

Power Supply 32": Filter & Stand-by



Power Supply 32": Supply



1002 H14	3032 B11	7009 G5	I084 F9
1007 G11	3033 A5	7010 F12	I085 F12
1009 I13	3034 G13	7017 F3	I088 E13
1010 I14	3035 C7	7018 F4	I089 F12
1012 I14	3037 C12	7020 H12	I092 F13
1M02 G13	3038 F14	7021 H13	I093 F13
1M08 H14	3040 F13	7030 A10	I094 G12
2000 E10	3041 G13	7101 B13	I095 A5
2001 D11	3043 D2	7102 C14	I096 A3
2002 A2	3045 G5	9002 G14	I097 A4
2003 A5	3046 F6	9004 B6	I098 A5
2004 C2	3047 H3	9008 A4	I099 A6
2005 D2	3048 D2	9009 A4	I100 A7
2006 C2	3050 E3	9024 D8	I101 A7
2007 E2	3051 H4	9025 E8	I103 C1
2008 G4	3052 C12	9029 C11	I104 D2
2009 D2	3053 E4	9030 C11	I105 E3
2010 H1	3055 I5	9070 D13	I106 E6
2011 E9	3056 I4	9071 D13	I107 C7
2012 E9	3057 A12	9072 D14	I108 D6
2013 C9	3058 E3	9073 D14	I109 C8
2014 F7	3059 H11	9074 E13	I110 D9
2015 F5	3060 E14	9075 H13	I111 C9
2016 E6	3061 E4	9076 H12	I112 E9
2017 C9	3062 I11	9077 H12	I113 E9
2018 F5	3063 I11	F002 C8	I114 D9
2019 H3	3064 F3	F003 C6	I116 C10
2020 C11	3065 E4	F004 D6	I117 C10
2021 B12	3066 F3	F005 D9	I119 C12
2022 E12	3067 G1	F008 D6	I121 F14
2023 A12	3068 G4	F009 D7	I122 F14
2024 F13	3069 A10	F012 D12	I123 F10
2025 E13	3070 H4	F014 F13	I124 G11
2026 G3	3071 H4	F016 B12	I131 I6
2027 F3	3075 G5	F017 C12	I132 I5
2028 B11	3089 H6	F018 A8	I133 I4
2029 D11	3100 A9	F019 D13	I134 I3
2030 F12	3101 A13	F021 A11	I135 G3
2031 B12	3102 B14	F022 A12	I136 H4
2032 E14	3103 B14	F023 F9	I137 G4
2033 E13	3104 C14	F024 D12	I138 H5
2034 C2	3105 C14	F025 D12	I139 G5
2035 C2	3292 G10	F027 D11	I140 G5
2036 B14	3999 A12	F028 C11	I141 H2
2038 E12	5001 C7	F029 B9	I142 H1
2039 B11	5002 C9	F046 I13	I143 G1
2040 C1	5004 D9	F047 I13	I145 E8
2041 D13	5005 C9	F048 I13	I146 B11
2042 E13	5007 B9	F290 H13	I148 B13
2043 E13	5008 B9	F292 G13	I149 D14
2044 C11	5009 B6	F293 G12	I152 B14
2045 E11	5010 A6	F294 H12	I290 G11
2046 I4	5013 E9	F295 H13	I291 G11
2047 I5	5015 C6	F296 G13	I292 H11
2048 I5	5016 D6	F297 G12	I293 H11
2049 E11	5017 A3	F298 H12	I294 C8
2050 E4	5025 D10	F299 A9	I295 H6
2051 D13	5026 E10	F300 F9	I296 G6
2052 E13	5027 B10	I001 B9	c001 I9
2053 E13	5028 C10	I002 B9	c002 E8
2054 I11	5040 D9	I003 C7	
2055 C12	5041 E9	I004 D8	
2056 C12	5291 G12	I005 A11	
2057 B13	5292 H12	I006 B3	
2058 B13	5293 G12	I007 C3	
2059 B14	6001 D2	I008 C3	
2060 C7	6002 D8	I009 C2	
2061 B7	6003 C7	I010 D3	
2062 D7	6004 D6	I011 I5	
2063 C6	6005 D6	I012 D4	
2064 D6	6006 I4	I013 F3	
2065 D8	6007 C7	I018 E3	
2066 E11	6008 D7	I020 F4	
2067 F11	6009 H2	I021 E2	
2068 I12	6010 G5	I022 F3	
2071 E8	6011 F5	I023 F3	
2072 C8	6012 E8	I024 F4	
2077 H5	6013 C8	I025 F3	
2078 D13	6014 H6	I027 C3	
2290 G10	6015 G6	I028 G2	
2291 G11	6016 I12	I029 G3	
2292 G11	6017 I5	I030 A9	
2293 H11	6018 C11	I031 A4	
2294 H11	6019 B11	I032 A3	
3000 A3	6020 H1	I033 F5	
3001 F6	6021 D11	I034 F7	
3002 C2	6022 H3	I035 A3	
3003 C1	6023 F13	I036 F6	
3004 D2	6027 C8	I037 C8	
3005 C3	6028 E8	I038 C8	
3006 D3	6031 F11	I039 D7	
3007 E2	6032 F11	I040 A5	
3008 E2	6033 E11	I041 E11	
3009 E2	6034 E11	I042 C8	
3010 H2	6044 B11	I043 A6	
3011 H2	6045 C11	I044 A6	
3012 F4	6051 H4	I045 C7	
3013 F4	6077 A5	I046 C8	
3014 C8	6078 A6	I047 I12	
3015 C8	6079 A4	I048 D11	
3016 C7	6080 A4	I051 E8	
3017 D8	6081 A2	I052 D8	
3018 E8	6082 A4	I055 E8	
3019 E7	6101 A13	I057 D8	
3020 E7	6102 B14	I059 E8	
3021 G7	6103 B13	I062 A11	
3022 C12	6104 C13	I063 A10	
3023 F12	6291 G11	I064 B7	
3024 F14	6293 H11	I070 B10	
3025 F13	7001 C4	I072 C10	
3026 G13	7002 A10	I073 D10	
3027 G3	7004 H5	I074 E11	
3028 E7	7005 C8	I076 E10	
3029 C7	7006 D8	I077 E11	
3030 G12	7007 C8	I080 F11	
3031 A11	7008 E8	I081 F7	

Power Supply 32”: Connections

A3 CONNECTIONS

A3

1310 B6
1314 B1
1315 B2
1316 B3
1317 B4
1319 B3
1321 B2
1M64 C6
3902 C5
3903 C5
3904 E5
3905 E5
9051 B4
9052 B1
9053 B3
9054 D5
9055 D5
9056 D5
9057 D5
F030 C2
F031 C2
F032 C2
F033 C2
F034 C2
F035 C3
F036 C3
F037 C3
F038 C3
F039 C3
F043 C6
F044 C6
I701 C5
I702 C4

TO DISPLAY

+24V

9052 * 1314 * B10P-PH-K-S
1315 * B10P-PH-K-S
1321 * B14B-PH-K
1319 * B14B-PH-K
9053 * 1316 * B12P-PH-K
9051 * 1317 * B12P-PH-K

F030 F031 F032 F033 F034 F035 F036 F037 F038 F039

+295V 1310 * B2P-VA-BF-RD

TO DISPLAY

1M64 B9B-PH-K

3902 * 10K
3903 * 10K
3904 * 10K
3905 * 10K

+12V F043
+12Vb
F044

I702 I701 9057

LAMP-ON-OFF
BOOST 9055 *
DIM-CONTROL_PWM 9056
SELECT-PWM-ANA 9054 *

TO AUDIO-STANDBY

3104 313 6092.4

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Layout Power Supply 32” (Top Side)

1000 A1
1001 A3
1002 A11
1007 A10
1009 B9
1010 C9
1011 C3
1012 A9
1305 A3
1306 A4
1308 C1
1310 A10
1314 C11
1315 A11
1316 A11
1317 C11
1319 A11
1321 C11
1400 C1
1401 A4
1402 A2
1403 B1
1450 A3
1M02 B11
1M08 C11
1M64 A9
2000 A7
2002 A7
2003 A6
2004 A6
2005 A6
2010 A7
2011 B7
2012 C7
2013 C6
2014 A7
2017 B6
2020 C8
2021 C8
2022 A8
2032 A8
2038 A9
2054 C10
2066 B9
2067 B10
2078 A10
2292 A11
2294 A11
2400 C2
2401 B1
2404 B1
2406 A3
2407 A3
2408 B3
2409 A3
2503 A4
2803 B3
2804 B4
2806 B4
2809 C4
2810 C4
2815 A3
2816 A5
3000 A5
3014 B6
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5027 C9
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5403 A3
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6019 C10
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6031 B10
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6033 B9
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6045 C10
6291 A9
6293 A10
6506 A3
6807 C3
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6809 A4
7001 A6
7002 A7
7005 C6
7006 C7
7101 B10
7805 B4
7806 C4
7807 A5
9001 A3
9003 A3
9004 A7
9005 B3
9006 B10
9007 A8
9011 A8
9012 C8
9013 B8
9014 B1
9015 A5
9016 A7
9017 A5
9018 A6
9019 A6
9020 B7
9021 A6
9022 C3
9023 C3
9024 C6
9025 B7
9027 B9
9029 C9
9030 C10
9031 A9
9032 A9
9033 A9
9034 A10
9035 B8
9037 B9
9038 A9
9040 A9
9051 C11
9052 C11
9053 A11
9070 A10
9075 C10
9080 A7
9081 C2
9086 B11
9087 B9
9088 A10
9090 A9
9092 A7
9093 A7
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9101 B9
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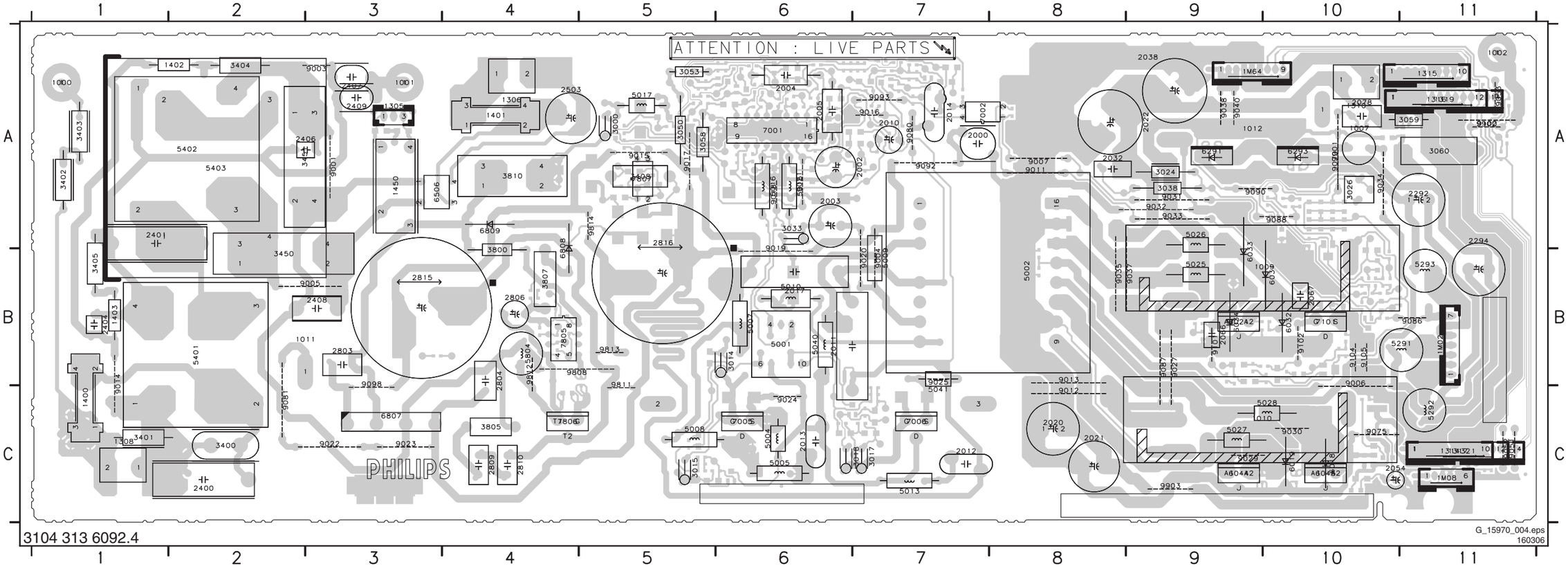

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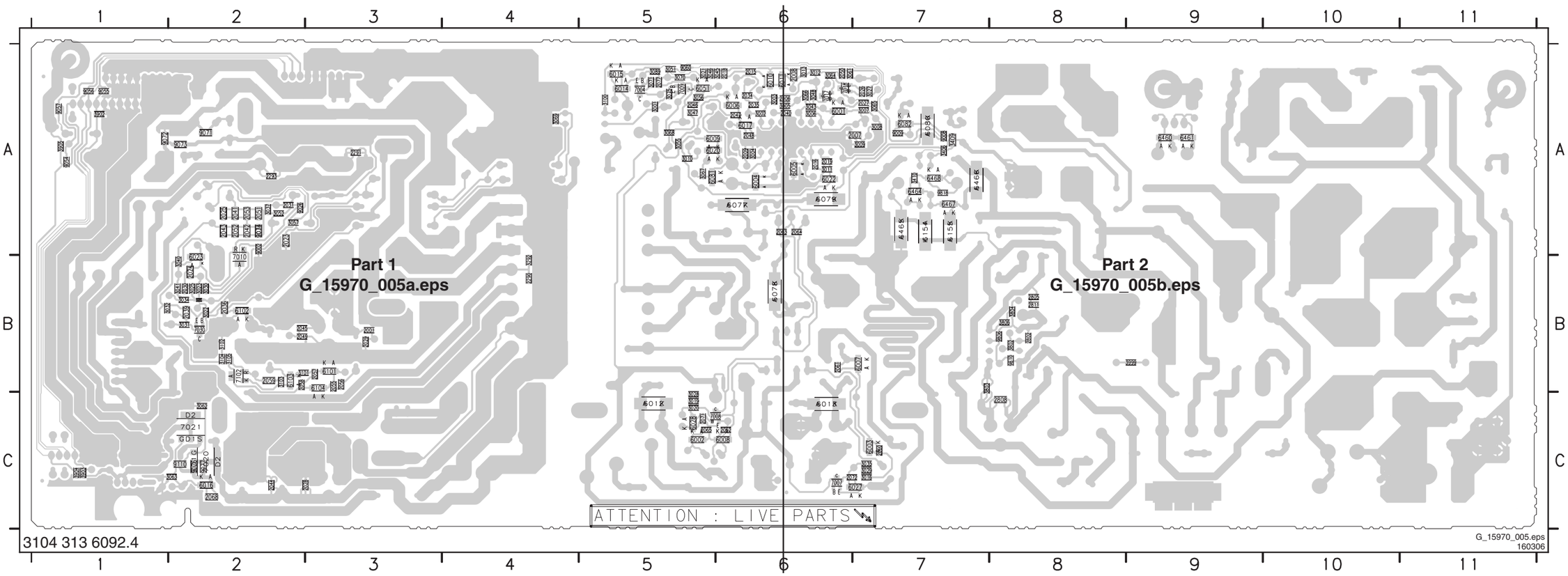
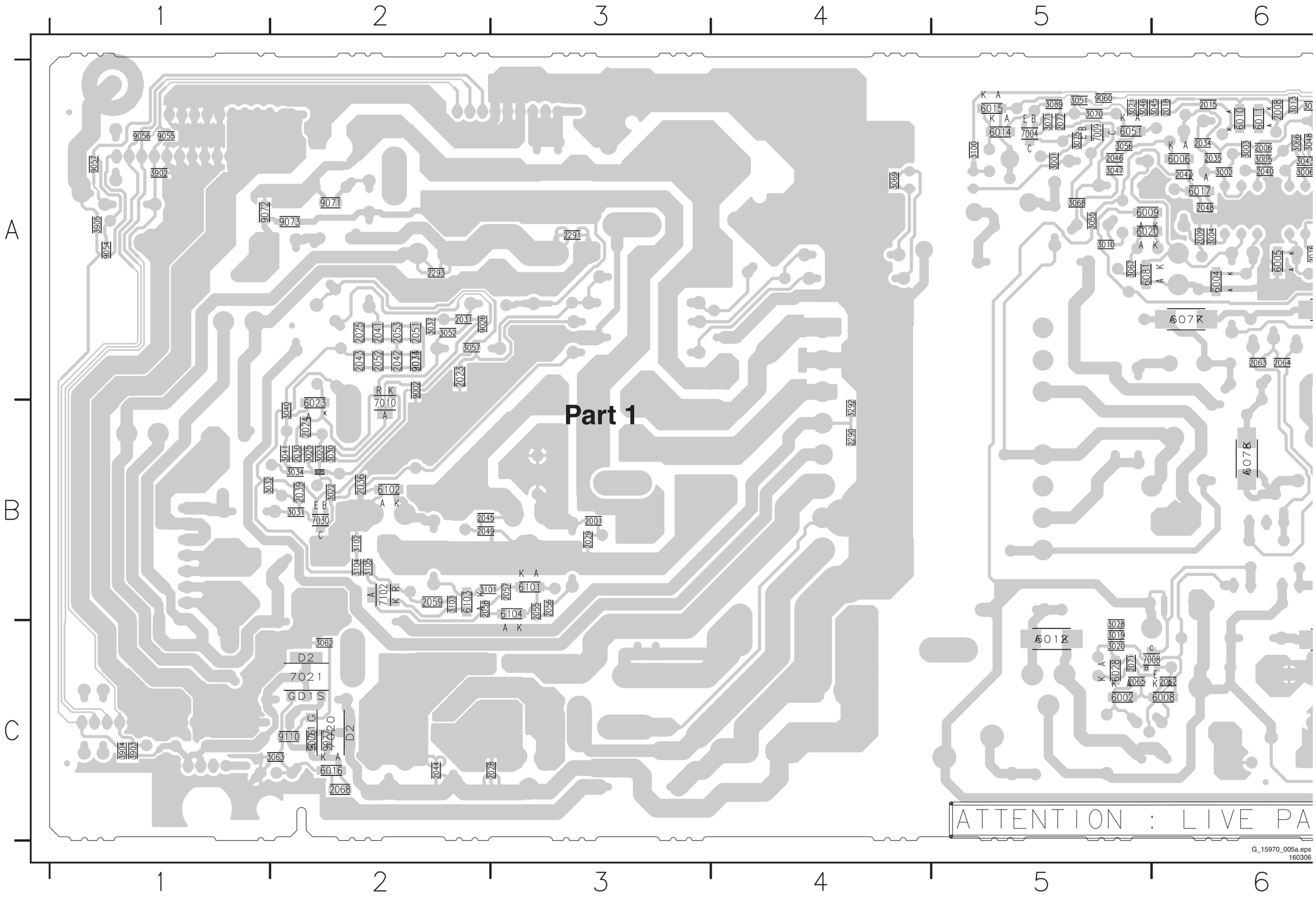
Layout Power Supply 32” (Overview Bottom Side)

2001	B3	2018	A6	2028	C3	2036	B2	2045	B2	2052	A2	2060	C7	2071	C5	2805	B8	3005	A6	3012	A6	3023	B2	3032	B1	3045	A6	3056	A5	3066	A6	3089	A5	3292	B4	3806	B8	6002	C5	6009	A5	6016	C2	6051	A5	6101	B3	6461	A9	7007	C6	7021	C2	9054	A1	9073	A2	9810	B8
2006	A6	2019	A6	2029	B3	2039	B2	2046	A5	2053	A2	2061	B6	2072	C6	2808	C8	3006	A6	3013	A6	3025	B2	3034	B2	3046	A5	3057	A2	3067	A5	3100	A5	3406	A7	3902	A1	6003	C7	6010	A6	6017	A6	6077	A5	6102	B2	6464	A7	7008	C5	7030	B2	9055	A1	9074	A2	9818	A7
2007	A7	2023	A2	2030	B2	2040	A6	2047	A6	2055	B3	2062	C6	2077	A5	2811	B8	3007	A7	3016	C7	3027	A7	3035	C7	3047	A5	3061	A6	3068	A5	3101	B2	3409	A7	3903	C1	6004	A6	6011	A6	6020	A5	6078	B6	6103	B2	6465	A7	7009	A5	7102	B2	9056	A1	9076	C2		
2008	A6	2024	B2	2031	A2	2041	A2	2048	A6	2056	B3	2063	A6	2290	B4	3001	A5	3008	A7	3019	C5	3028	C5	3037	A2	3048	A6	3062	C2	3069	A4	3102	B2	3410	A7	3904	C1	6005	A6	6012	B5	6022	A6	6079	A6	6104	B3	6466	A7	7010	A2	9002	A2	9057	A1	9077	C2		
2009	A6	2025	A2	2033	A2	2042	A2	2049	B2	2057	B3	2064	A6	2291	A3	3002	A6	3009	A7	3020	C5	3029	C7	3040	B2	3051	A5	3063	C2	3070	A5	3103	B2	3802	B8	3905	A1	6006	A6	6013	B6	6023	A2	6080	A7	6154	A7	6467	A7	7017	A6	9008	A7	9060	A5	9085	B2		
2015	A6	2026	A7	2034	A6	2043	A2	2050	A6	2058	B2	2065	C5	2293	A2	3003	A6	3010	A5	3021	A5	3030	B2	3041	B2	3052	A2	3064	A6	3071	A5	3104	B2	3803	B7	3999	B9	6007	B7	6014	A5	6027	C7	6081	A5	6155	A7	6468	A7	7018	A6	9009	A7	9071	A2	9110	C2		
2016	A6	2027	A7	2035	A6	2044	C2	2051	A2	2059	B2	2068	C2	2802	B8	3004	A6	3011	A6	3022	B2	3031	B2	3043	A6	3055	A5	3065	A7	3075	A5	3105	B2	3804	B8	6001	A6	6008	C6	6015	A5	6028	C5	6082	A7	6460	A9	7004	A5	7020	C2	9026	A2	9072	A1	9806	B8		



Layout Power Supply 32” (Part 1 Bottom Side)



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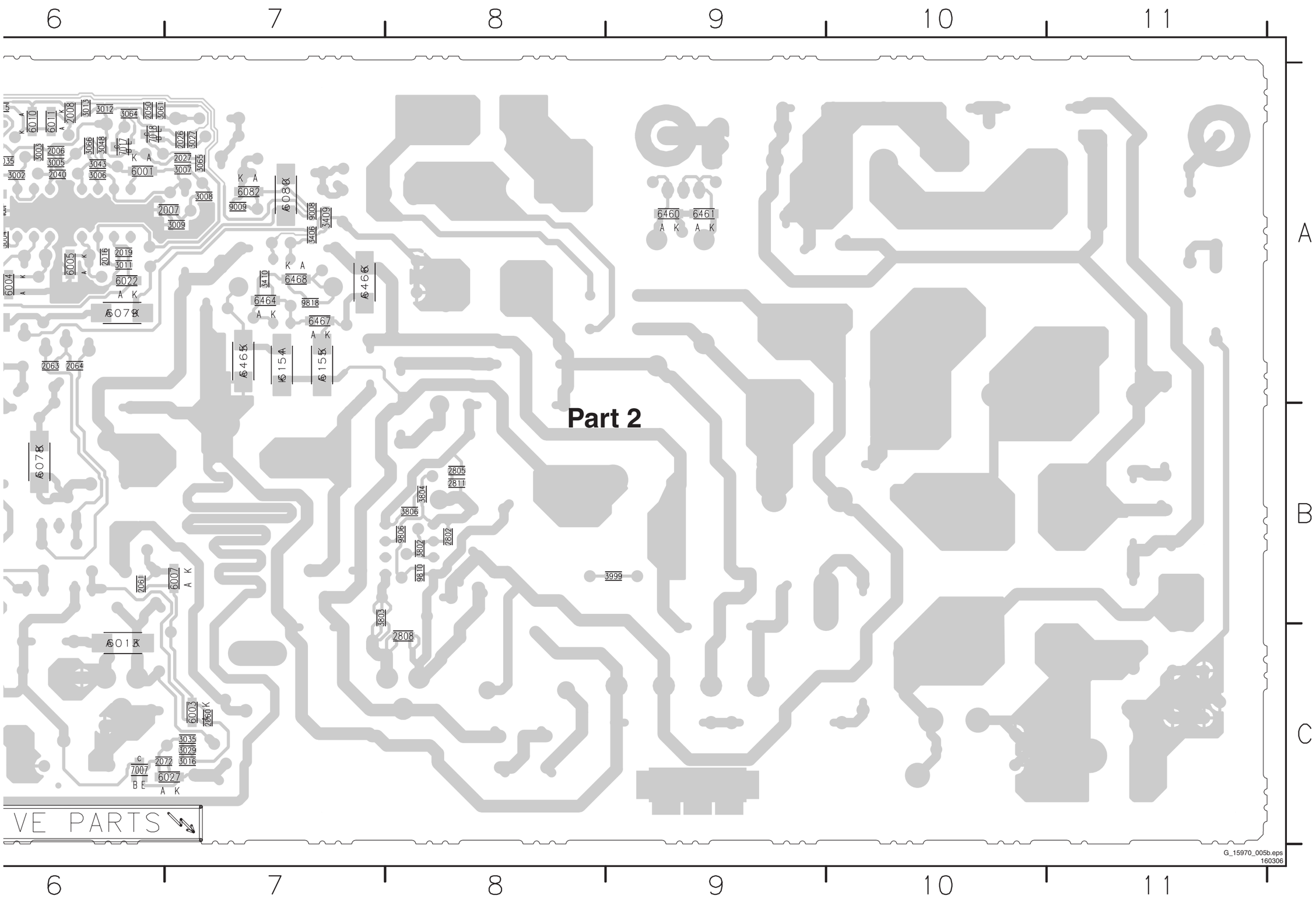

Display Supply 37": Part 1

A1 DISPLAY SUPPLY: PART1

MAINS INPUT
95-264Vac

MAINS FILTER

HOT GROUND

COLD GROUND

To Display

1011 HEATSINK

1450 G5PA-1-5VDC

7805 AVS1ACP08

7807 TCET1102(G)

7806 AVS1102B

7801 BC817-25W

7802 BC847BW

7013 BC847BW

7014 BC847BW

6807 GBJ6J

1308 B2P-VH

1310 B2P-VA-BF

1314 B10P-PH-K-S

1315 B10P-PH-K-S

1316 B12P-PH-K

1317 B12P-PH-K

1319 B14B-PH-K

1320 B14B-PH-K

1M08 B6B-PH-K

1400 PTF/65 T5AH 250V

5403 DMF3547HB60

5401 DMF3547HB60

5402 DMF3547HB60

5405 DMF3409HB60

5404 33u

6460 1N5062

6461 BAS316

6462 1N5062

6463 1N5062

6464 BAS316

6465 BZG03-C200

6466 BZG03-C200

6467 BZX384-C33

6468 BZX384-C33

6469 BZX384-C2V7

6055 BZX384-C3V3

6056 BZX384-C9V3

6083 BAS316

6024 BZX384-C22

6026 BZX384-C18

6806 PLT09H

3810 12K

3406 10K

3408 22K

3401 4M7

3402 4M7

3403 4M7

3405 220R

3450 1R0

3451 1R0

3422 10K

3423 10K

3424 220R

3425 10K

3430 10K

3431 10K

3432 10K

3433 10K

3413 10K

3803 390R

3804 20K

3805 47K

3806 47K

3807 22K

3802 91K

3076 910

3077 47K

3078 1K0

3074 1K0

3072 6K8

3073 2K2

2401 470n

2403 22n

2404 47p

2406 47p

2408 100n

2409 10n

2801 470n

2802 47n

2803 56n

2804 56n

2805 47n

2806 47u 50V

2807 47n

2808 47n

2809 100n

2810 100n

2812 100p

2813 33u

2814 330u

2815 330u

2816 330u

9015 9046 9042 9003 9001 9005 9092 9062 9806 9810 9811 9813 9814 9808 9820 9821 9816 9817 9819 9818 9812 9804 9805 9807 9052 9054 9041 9053

F001 F006 F010 F011 F013 F020 F031 F032 F040 F015 F026 F034 F410 F411 F412 F413 F414 F415 F416 F417 F418 F419 F420 F421 F422 F423 F424

I410 I411 I412 I413 I414 I415 I416 I417 I418 I419 I420 I421 I422 I423 I424 I425 I426 I427 I428 I429 I430 I431 I432 I433 I434 I435 I436 I437 I438 I439 I440 I441 I442 I443 I444 I445 I446 I455 I456 I457 I458 I459 I460 I461 I810 I811 I812 I813 I814 I815 I816 I817 I820 I822 I824 I825 I826 I827 I829 I830 I831 I832 I833 I834 I035 I019 I026

25V_HOT 400V_HOT +24V_+295V +12Vd +5V-SW +4V8 (0V) RELAY+ RELAY- ON-OFF DIM-CONTROL BOOST POWER-GOOD LATCH STANDBY GND-SCR GND-SSP c003

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1011 A7
1308 C1
1310 H13
1314 F1
1315 F2
1316 F4
1317 F5
1318 G14
1319 F3
1320 F3
1400 C2
1402 D3
1403 D3
1404 D3
1405 D3
1450 D8
1M08 H9
2400 C2
2401 C4
2402 G7
2403 C3
2404 C4
2406 C5
2407 E4
2408 C7
2409 H11
2802 F10
2803 C11
2804 C10
2805 E10
2806 F11
2807 F10
2808 E12
2809 E12
2810 E12
2815 C12
2816 D12
3072 H12
3073 G12
3074 H11
3076 G11
3077 G10
3078 G10
3400 C3
3401 C1
3402 D2
3403 E2
3404 D5
3405 D4
3406 A13
3408 C13
3410 B13
3413 G7
3422 F7
3423 F7
3424 F7
3425 F8
3430 H2
3431 H3
3432 H5
3433 H5
3450 C6
3451 D6
3800 E10
3802 E11
3803 E11
3804 F10
3805 F12
3806 E10
3807 F9
3810 B10
5401 C4
5402 C5
5403 B5
5404 A9
5405 C3
5406 H8
5804 F12
6024 G11
6026 G12
6055 H2
6056 H5
6083 G10
6154 C13
6155 C12
6460 E8
6461 E8
6462 B9
6463 F8
6464 B12
6465 C13
6466 A12
6467 A13
6468 B13
6469 F8
6807 C11
6808 E9
6809 E9
7013 H11
7014 H11
7801 F7
7802 G7
7805 E10
7806 E12
7807 A13
9001 C6
9003 D5
9005 C6
9015 C3
9041 H13
9042 D4
9043 F3
9045 F4
9046 C3
9052 G13
9053 H13
9054 G13
9062 C4
9070 H3
9071 H3
9072 H4
9073 H5
9806 E10
9808 C12
9810 D10
9811 D12
9812 F12
9813 D12
9814 C12
9815 B10
9816 F8
9817 B9
9818 B13
9819 A10
c003 H14
9820 H8
9821 H8
F001 F1
F006 G1
F010 G1
F011 G1
F013 G1
F015 G1
F019 H8
F020 F5
F026 H8
F031 G5
F032 G5
F033 G14
F034 H10
F040 G1
F410 C1
F411 C1
F412 C1
F413 C2
F414 C2
F415 C1
F416 C2
F417 C2
F418 C2
F419 C2
F420 E8
F421 F8
F422 B11
F423 B11
F424 C13
I019 G12
I026 G11
I031 G11
I032 H11
I035 H12
I410 C2
I411 C5
I412 C6
I413 C9
I414 D6
I415 C7
I416 C5
I417 D12
I418 C12
I419 D2
I420 D12
I421 E11
I422 E12
I423 E11
I424 E8
I425 E11
I426 E10
I427 E10
I428 E10
I429 C3
I430 E5
I431 D4
I432 D6
I433 B10
I434 B10
I435 B9
I436 F7
I437 F7
I438 F7
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I440 F8
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I442 C6
I443 C3
I444 C7
I445 D5
I446 D5
I455 D5
I456 E10
I457 H3
I458 G3
I459 G5
I460 G14
I461 G13
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I814 E9
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I816 E9
I817 D11
I820 F9
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I824 E12
I825 E12
I826 E12
I827 A12
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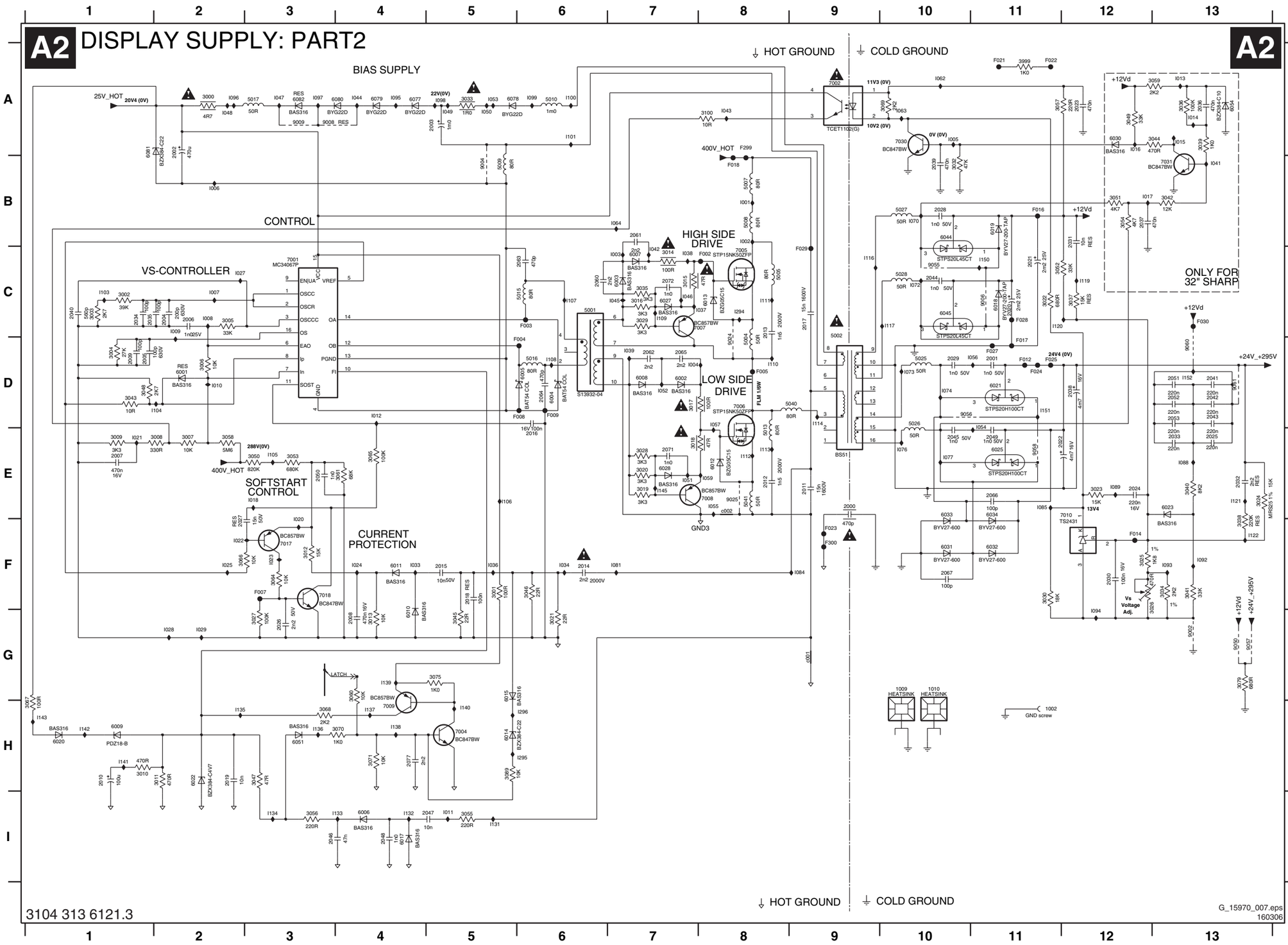
c003 H14

Display Supply 37": Part 2



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1010 G10	3053 E3	F018 B8	I145 E7	
2000 E9	3054 B12	F021 A11	I150 C11	
2001 D11	3055 I5	F022 A11	I151 D11	
2002 A2	3056 I3	F023 F9	I152 D13	
2003 A5	3057 A11	F024 D11	I294 C8	
2004 C2	3058 E2	F025 D11	I295 H6	
2005 D1	3059 A13	F027 D11	I296 H6	
2006 C2	3060 G4	F028 C11	c001 G9	
2007 E1	3061 E4	F029 C9	c002 E8	
2008 G4	3064 F3	F030 C13		
2009 D1	3065 E4	F299 A8		
2010 H1	3066 F2	F300 F9		
2011 E9	3067 H1	I001 B8		
2012 E8	3068 H3	I002 B8		
2013 C8	3069 A10	I003 C7		
2014 F6	3070 H4	I004 D7		
2015 F5	3071 H4	I005 A10		
2016 E6	3075 G5	I006 B2		
2017 C9	3079 G13	I007 C2		
2018 F5	3089 H5	I008 C2		
2019 H2	3100 A8	I009 C2		
2020 C11	3999 A11	I010 D2		
2021 C11	5001 C6	I011 I5		
2022 E12	5002 D9	I012 D4		
2023 A12	5004 D8	I013 A13		
2024 E12	5005 C8	I014 A13		
2025 E13	5007 B8	I015 A13		
2026 G3	5008 B8	I016 A12		
2027 F2	5009 B5	I017 B12		
2028 B10	5010 A6	I018 E3		
2029 D10	5013 E8	I020 F3		
2030 F12	5015 C6	I021 E1		
2031 B12	5016 D6	I022 F2		
2032 E13	5017 A3	I023 F3		
2033 E13	5025 D10	I024 F4		
2034 C1	5026 D10	I025 F2		
2035 C1	5027 B10	I027 C2		
2036 A13	5028 C10	I028 G2		
2037 B12	5040 D9	I029 G2		
2038 D12	5041 E8	I033 F4		
2039 B10	6001 D2	I034 F6		
2040 C1	6002 D7	I036 F5		
2041 D13	6003 C7	I037 C8		
2042 D13	6004 D6	I038 C7		
2043 D13	6005 D6	I039 D7		
2044 C10	6006 I4	I041 B13		
2045 E10	6007 C7	I042 C7		
2046 I3	6008 D7	I043 A8		
2047 I5	6009 H1	I044 A4		
2048 I4	6010 G4	I045 C7		
2049 E11	6011 F4	I046 C7		
2050 E3	6012 E8	I047 A3		
2051 D13	6013 C8	I048 A2		
2052 D13	6014 H5	I049 A5		
2053 D13	6015 G5	I050 A5		
2060 C6	6017 I4	I051 E7		
2061 B7	6018 C11	I052 D7		
2062 D7	6019 B11	I053 A5		
2063 C6	6020 H1	I054 D11		
2064 D6	6021 D11	I055 E8		
2065 D7	6022 H2	I056 D11		
2066 E11	6023 E13	I057 D8		
2067 F10	6025 E11	I059 E8		
2071 E7	6027 C7	I062 A10		
2072 C7	6028 E7	I063 A10		
2077 H4	6030 A12	I064 B7		
3000 A2	6031 F10	I070 B10		
3001 F5	6032 F11	I072 C10		
3002 C1	6033 E10	I073 D10		
3003 C1	6034 E11	I074 D10		
3004 D1	6044 B10	I076 E10		
3005 C2	6045 C10	I077 E10		
3006 D2	6051 H3	I081 F7		
3007 E2	6054 A13	I084 F9		
3008 E2	6077 A4	I085 E11		
3009 E1	6078 A5	I088 E13		
3010 H1	6079 A4	I089 E12		
3011 H2	6080 A4	I092 F13		
3012 F3	6081 A1	I093 F13		
3013 G4	6082 A3	I094 G12		
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3015 C7	7002 A9	I096 A2		
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3020 E7	7008 E8	I101 A6		
3021 G6	7009 H4	I103 C1		
3022 C11	7010 E12	I104 D2		
3023 E12	7017 F3	I105 E3		
3024 E13	7018 F3	I106 E5		
3025 F12	7030 A10	I107 C6		
3026 G13	7031 B13	I108 D6		
3027 G3	9002 G13	I109 C7		
3028 E7	9004 B5	I110 D8		
3029 C7	9006 C11	I111 C8		
3030 F11	9008 A3	I112 E8		
3032 B10	9009 A3	I113 E8		
3033 A5	9024 D8	I114 D9		
3034 F13	9025 E8	I116 C9		
3035 C7	9050 G13	I117 C10		
3036 A13	9055 C10	I119 C12		
3037 C12	9056 D10	I120 C11		
3038 F13	9057 G13	I121 E13		
3039 A13	9058 E11	I122 F13		
3040 E13	9060 D13	I131 I5		
3041 F13	9061 D13	I132 I4		
3042 B13	F002 C8	I133 I4		
3043 D1	F003 C6	I134 I3		
3044 A13	F004 D6	I135 H2		
3045 G5	F005 D8	I136 H3		
3046 F6	F007 F3	I137 H4		
3047 H3	F008 D6	I138 H4		
3048 D1	F009 D6	I139 G4		
3049 A12	F012 D11	I140 H5		
3050 E3	F014 F12	I141 H1		

Platform Supply 37”: Aux Supply

0P01 G10 1M02 G3 1M03 G3 1M10 H13 1M18 H13 1M46 G15 1M63 G10 1P00 G4 1P01 G4 1P03 A3 1P05 H7 1P06 A11
1P07 B11 1P17 C1 1P30 E13 2P01 F15 2P02 H10 2P04 F5 2P05 D7 2P06 D9 2P07 B4 2P08 B4 2P09 A11
2P10 B2 2P11 G6 2P12 F12 2P13 E15 2P14 B5 2P15 C2 2P16 B7 2P17 A14 2P18 H13 2P19 D7 2P20 F5 2P21 A13 2P22 B14 2P23 A13 2P24 C14 2P25 F6
2P22 A14 2P23 F14 2P24 F15 2P25 B11 2P26 A13 2P27 B11 2P28 B11 2P29 B11 2P30 B12 2P31 D13 2P32 E2 2P33 H6
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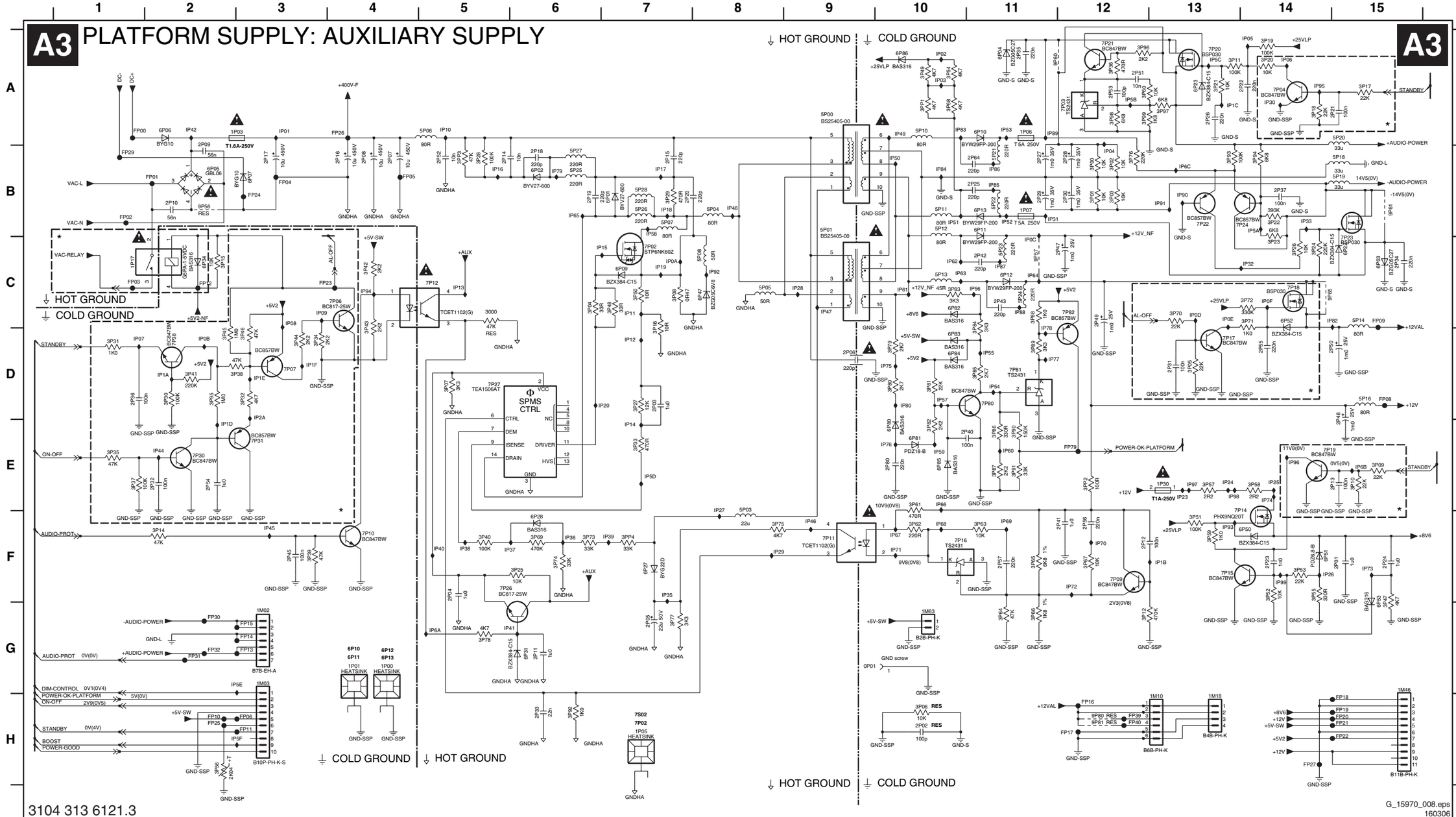
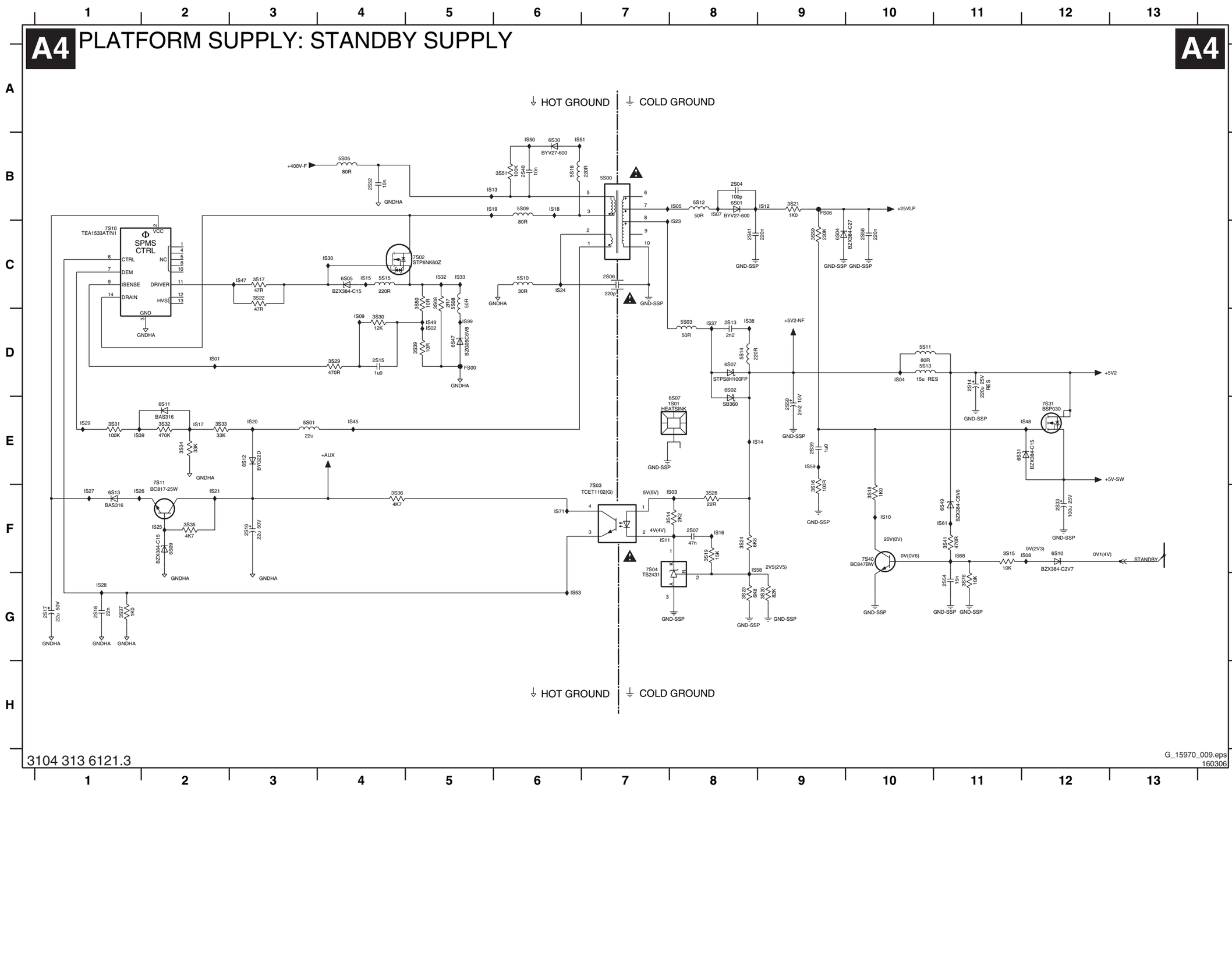


Platform Supply 37”: Stand-by Supply

A4 PLATFORM SUPPLY: STANDBY SUPPLY



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2S18 G1
2S33 F12
2S39 E9
2S40 B6
2S41 C8
2S50 E9
2S52 B4
2S54 G11
2S56 C10
3S08 C5
3S14 F8
3S15 F11
3S16 F9
3S17 C3
3S18 F10
3S19 F8
3S20 G9
3S21 B9
3S22 C3
3S23 G8
3S24 F8
3S28 F8
3S29 D4
3S30 D4
3S31 E1
3S32 E2
3S33 E2
3S34 E2
3S35 F2
3S36 F4
3S37 G1
3S39 D5
3S41 F11
3S50 C5
3S51 B6
3S59 C9
3S76 G11
5S00 B7
5S01 E3
5S03 D8
5S05 B4
5S08 C5
5S09 B6
5S10 C6
5S11 D10
5S12 B8
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5S14 D8
5S15 C4
5S16 B6
6S01 B8
6S02 D8
6S04 C9
6S05 C4
6S07 D8
6S09 F2
6S10 F12
6S11 E2
6S12 E3
6S13 F1
6S30 B6
6S31 E11
6S47 D5
6S49 F11
7S02 C5
7S03 F7
7S04 F7
7S10 C1
7S11 E2
7S31 E12
7S40 F10
FS00 D5
FS06 B9
IS01 D2
IS02 D5
IS03 F8
IS04 D10
IS05 B8
IS07 B8
IS08 F12
IS09 D4
IS10 F10
IS11 F7
IS12 B9
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IS15 C4
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IS17 E2
IS18 B6
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IS20 E3
IS21 F2
IS23 C8
IS24 C6
IS25 F2
IS26 F1
IS27 F1
IS28 G1
IS29 E12
IS30 C5
IS32 C5
IS33 C5
IS37 D8
IS38 D8
IS39 E1
IS45 E4
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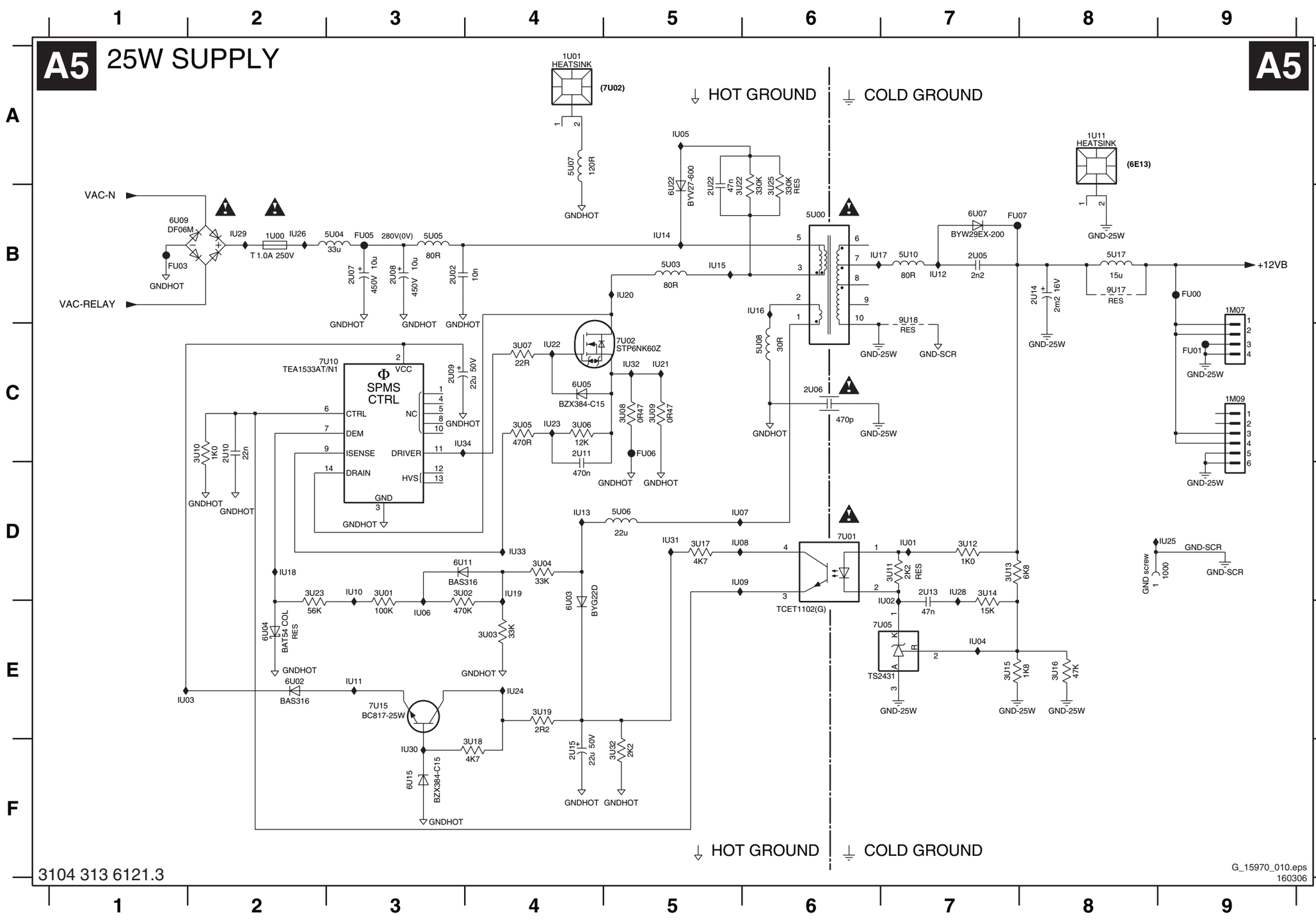
IS71 C3

Platform Supply 37": 25W Supply



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2U02 B3	FU07 B7
2U05 B7	IU01 D7
2U06 C6	IU02 E7
2U07 B3	IU03 E1
2U08 B3	IU04 E7
2U09 C3	IU05 A5
2U10 C2	IU06 E3
2U11 C4	IU07 D5
2U13 D7	IU08 D5
2U14 B8	IU09 D5
2U15 F4	IU10 D3
2U22 B5	IU11 E3
3U01 D3	IU12 B7
3U02 D3	IU13 D4
3U03 E4	IU14 B5
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3U05 C4	IU16 B6
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3U12 D7	IU23 C4
3U13 D7	IU24 E4
3U14 D7	IU25 D9
3U15 E7	IU26 B2
3U16 E8	IU28 D7
3U17 D5	IU29 B2
3U18 F4	IU30 F3
3U19 E4	IU31 D5
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3U25 B6	IU34 C3
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6U02 E2	
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6U05 C4	
6U07 B7	
6U09 B1	
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6U15 F3	
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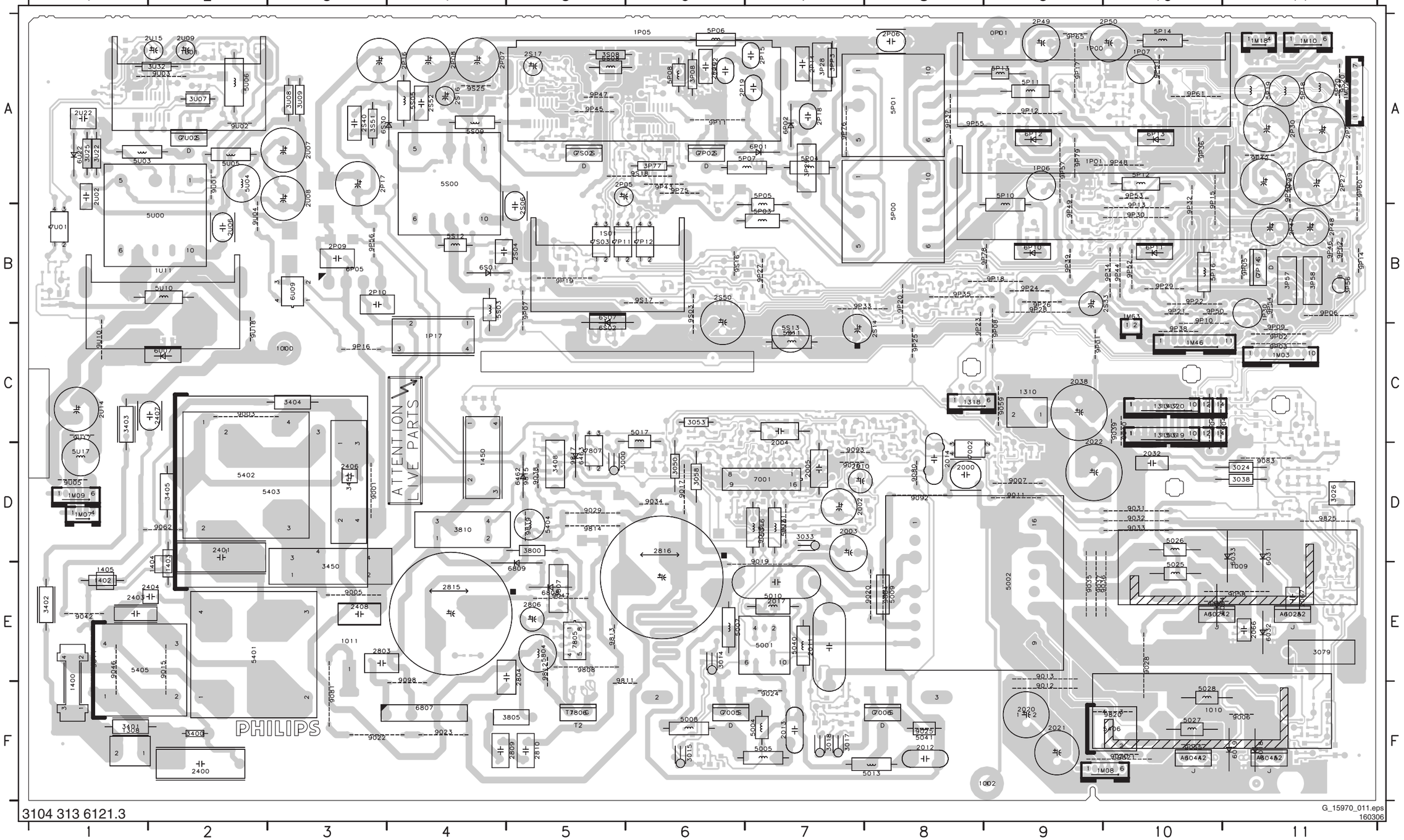
Layout Power Supply 37” (Top Side)



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Layout Power Supply 37” (Overview Bottom Side)

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2062 F5 2063 D5 2064 D5 2065 F5 2071 F5 2072 F6 2077 C4 2402 D3 2409 C1 2802 E7 2805 E7 2807 E7 2808 F7 2P01 B2
2P02 A2 2P03 A6 2P04 A6 2P11 A6 2P12 B5 2P13 B1 2P21 A1 2P22 A1 2P23 B1 2P24 B2 2P25 A2 2P26 A1 2P31 A3 2P32 B4
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3049 F1 3051 F1 3052 D1 3054 F1 3055 D4 3056 C5 3057 D1 3059 F1 3060 C6 3061 C6 3064 C6 3065 D6 3066 D5 3067 D4
3068 C4 3069 D3 3070 C4 3071 C4 3072 D1 3073 D1 3074 C1 3075 D4 3076 C1 3077 C1 3078 C1 3089 C4 3100 C5 3406 D7
3410 D7 3413 D3 3422 D3 3423 D3 3424 D3 3425 D3 3430 C1 3431 C1 3432 C1 3433 C1 3802 E7 3803 E7 3804 E7 3806 E7
3999 E8 3P00 A1 3P01 A1 3P02 A1 3P03 A1 3P04 A6 3P06 A2 3P07 A6 3P09 B1 3P10 B1 3P11 A1 3P12 B5 3P14 B3
3P15 B8 3P16 A6 3P17 A1 3P18 A1 3P19 A1 3P20 A1 3P22 A1 3P23 A1 3P24 A2 3P25 A7 3P26 A2 3P27 A6 3P30 B4
3P31 B4 3P32 B4 3P33 A6 3P34 B4 3P35 B4 3P36 A1 3P37 B4 3P38 B4 3P39 B3 3P40 A6 3P41 B4 3P42 B4 3P43 B4 3P44 B4
3P45 B4 3P46 B4 3P47 B2 3P48 A6 3P49 A2 3P50 A6 3P51 B1 3P52 B2 3P53 B1 3P54 A2 3P55 B1 3P59 B1 3P60 A1 3P61 B6
3P62 B6 3P63 B5 3P64 B5 3P65 B5 3P66 B5 3P67 B5 3P68 A2 3P69 A6 3P70 A3 3P71 A3 3P72 A2 3P73 A6 3P74 A6 3P75 B7
3P76 A1 3P78 A7 3P79 A3 3P80 A3 3P81 A2 3P82 A3 3P83 B3 3P84 B2 3P85 B2 3P86 B2 3P87 B2 3P88 B2 3P89 B3 3P90 B3
3P91 B2 3P92 A6 3P93 A1 3P94 A1 3P95 B4 3P96 A1 3P97 A1 3P99 B1 3PP1 A2 3PP2 B4 3PP4 A6 3S14 B7 3S15 B6
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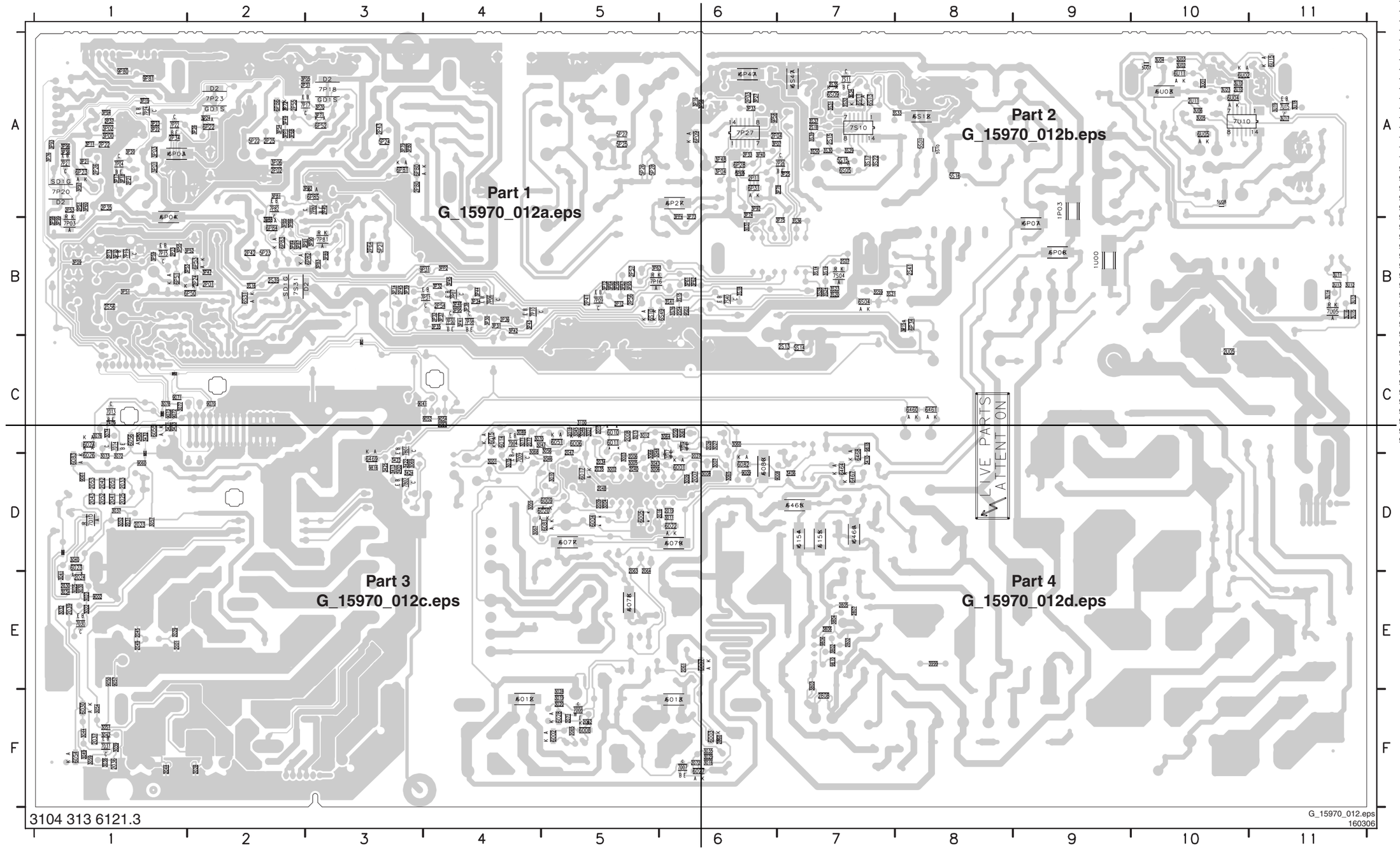
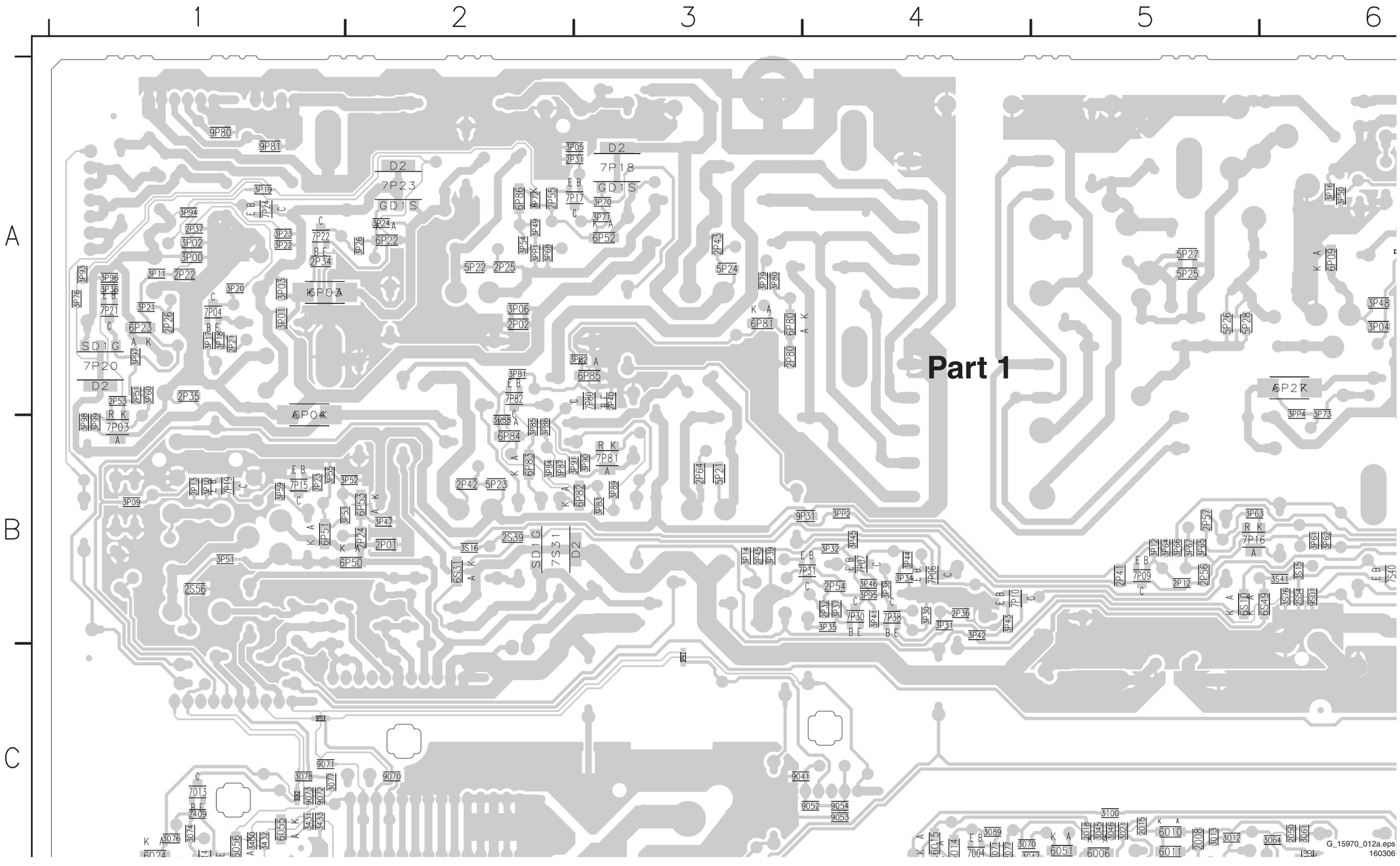
3U05 A10 3U06 A10 3U10 A10 3U11 B11 3U12 B11 3U13 B11 3U14 B11 3U15 B11 3U17 A11 3U18 A11 3U19 A11 3U23 A10
5P21 B3 5P22 A2 5P23 B2 5P24 A3 5P25 A5 5P26 A5 5P27 A5 5P28 A5 5S01 A8 5S14 C7 5S15 A7 5S16 A8 5U07 A10
5U08 A10 6001 D6 6002 F5 6003 F6 6004 D5 6005 D5 6006 C5 6007 E6 6008 F5 6010 C5 6011 C5 6012 E4 6013 E6
6014 C4 6015 C4 6017 D5 6020 D5 6022 D6 6023 D1 6024 C1 6026 D1 6027 F6 6028 F5 6030 F1 6051 C5 6054 F1
6056 C1 6077 D5 6078 E5 6079 D6 6080 C6 6081 D5 6082 D6 6083 D1 6154 D7 6155 D7 6460 C8 6461 C8 6465 D6
6466 D7 6467 D7 6468 C7 6469 C3 6P02 A1 6P03 A1 6P04 A1 6P06 B9 6P09 A6 6P22 A2 6P23 A1 6P27 A6 6P28 A6
6P31 A6 6P34 B8 6P47 A6 6P50 B2 6P51 B1 6P52 A3 6P53 B2 6P58 A3 6P80 A3 6P82 B3 6P83 B2 6P84 B2 6P85 A2
6P86 A2 6S09 A7 6S10 B5 6S11 A7 6S12 A8 6S13 A7 6S31 B2 6S47 A7 6S49 B6 6S04 B7 6S05 A7 6U02 A11 6U03 A10
6U04 A11 6U05 A10 6U11 A10 6U15 A11 7001 C3 7002 D6 7003 C4 7004 C4 7005 C4 7006 B4 7007 F6 7008 F5 7009 D4
7010 D1 7013 C1 7014 C1 7018 C6 7030 E1 7031 F1 7801 C3 7802 D3 7003 A1

7P04 A1 7P06 B4 7P07 B4 7P08 B5 7P09 B5 7P09 D4 7P10 B4 7P15 B1 7P16 B5 7P17 A3 7P18 A3 7P19 B1 7P20 A1 7P21 A1 7P22 A1 7P23 A2 7P24 A1 7P26 A7 7P27 A6 7P30 B4 7P31 B4 7P38 B4 7P80 A3 7P81 B3 7P82 A2 7S04 B7 7S10 A7 7S11 A7 7S31 B2 7S40 B6 7U05 B11 7U10 A11 7U15 A11 9002 E1 9008 D7 9009 D6 9041 C3 9050 E1 9051 D1 9052 C4 9053 C4 9054 C4 9057 E1 9060 D1 9061 D1 9070 C2 9071 C1 9072 C1 9073 C1 9082 C1 9085 D1 9806 E7 9810 E7 9816 D3 9818 C7 9P04 C1 9P31 B4 9P41 C3 9P58 A6 9P80 A1 9P81 A1 9S01 B6



Layout Power Supply 37” (Part 1 Bottom Side)



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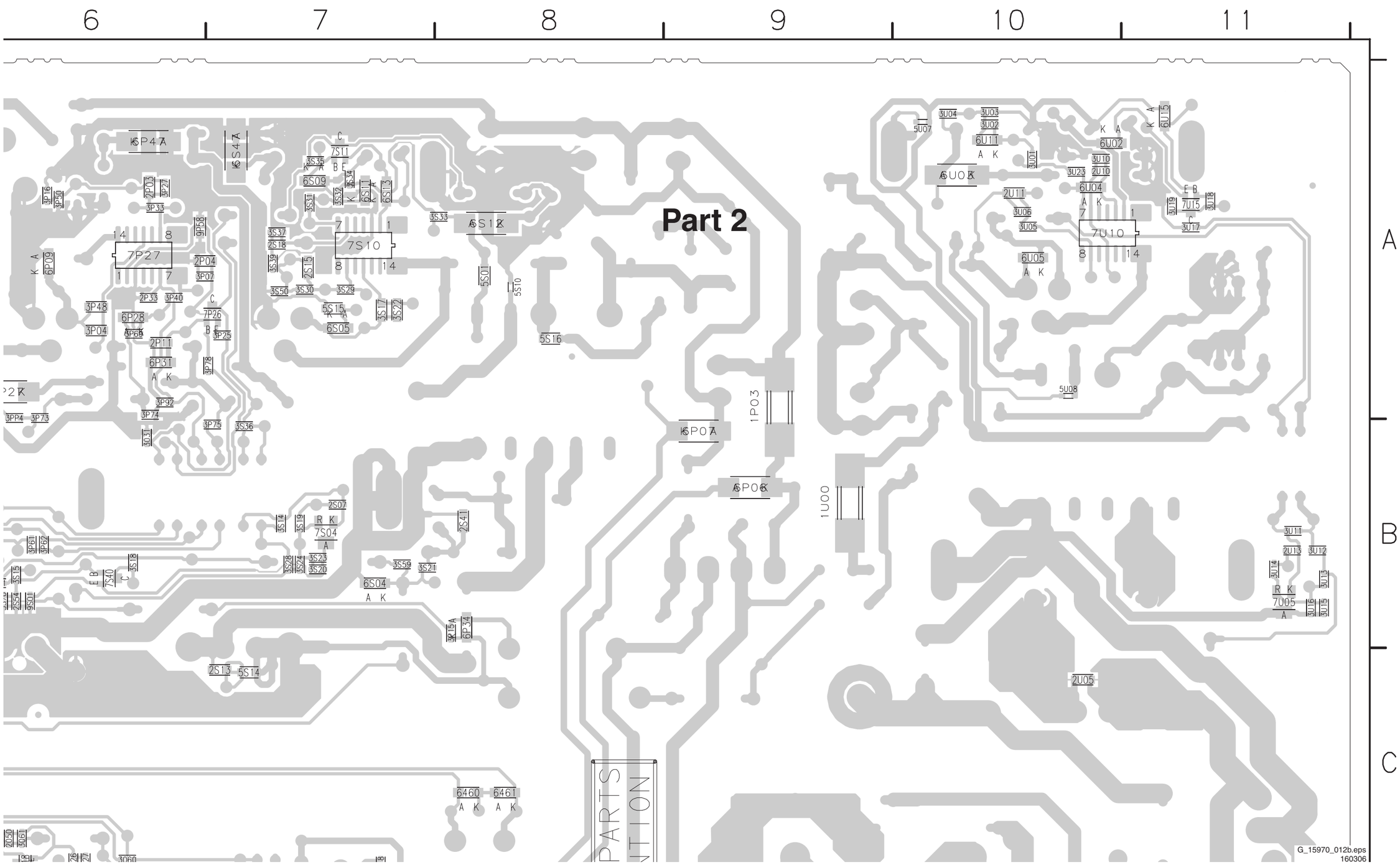

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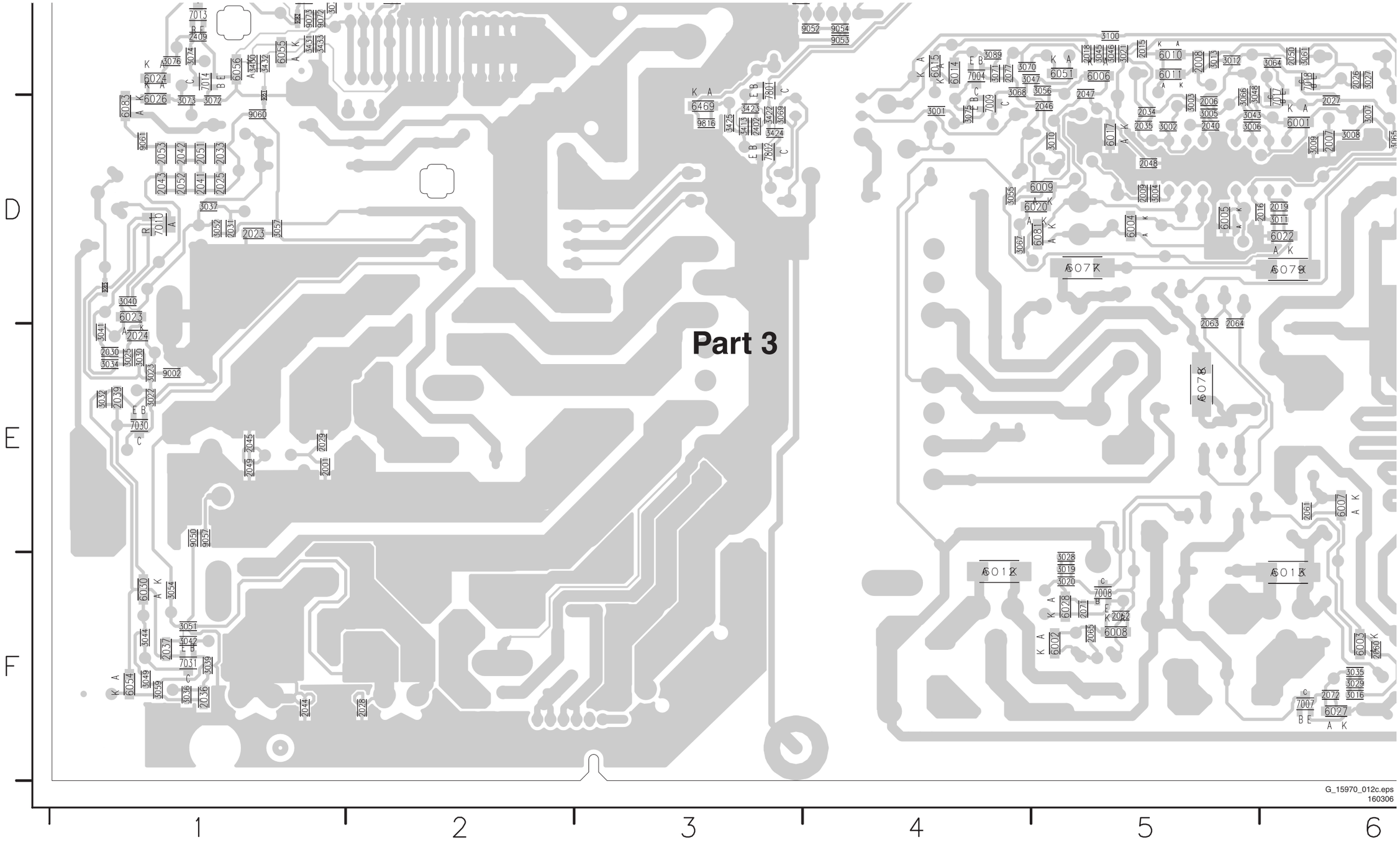

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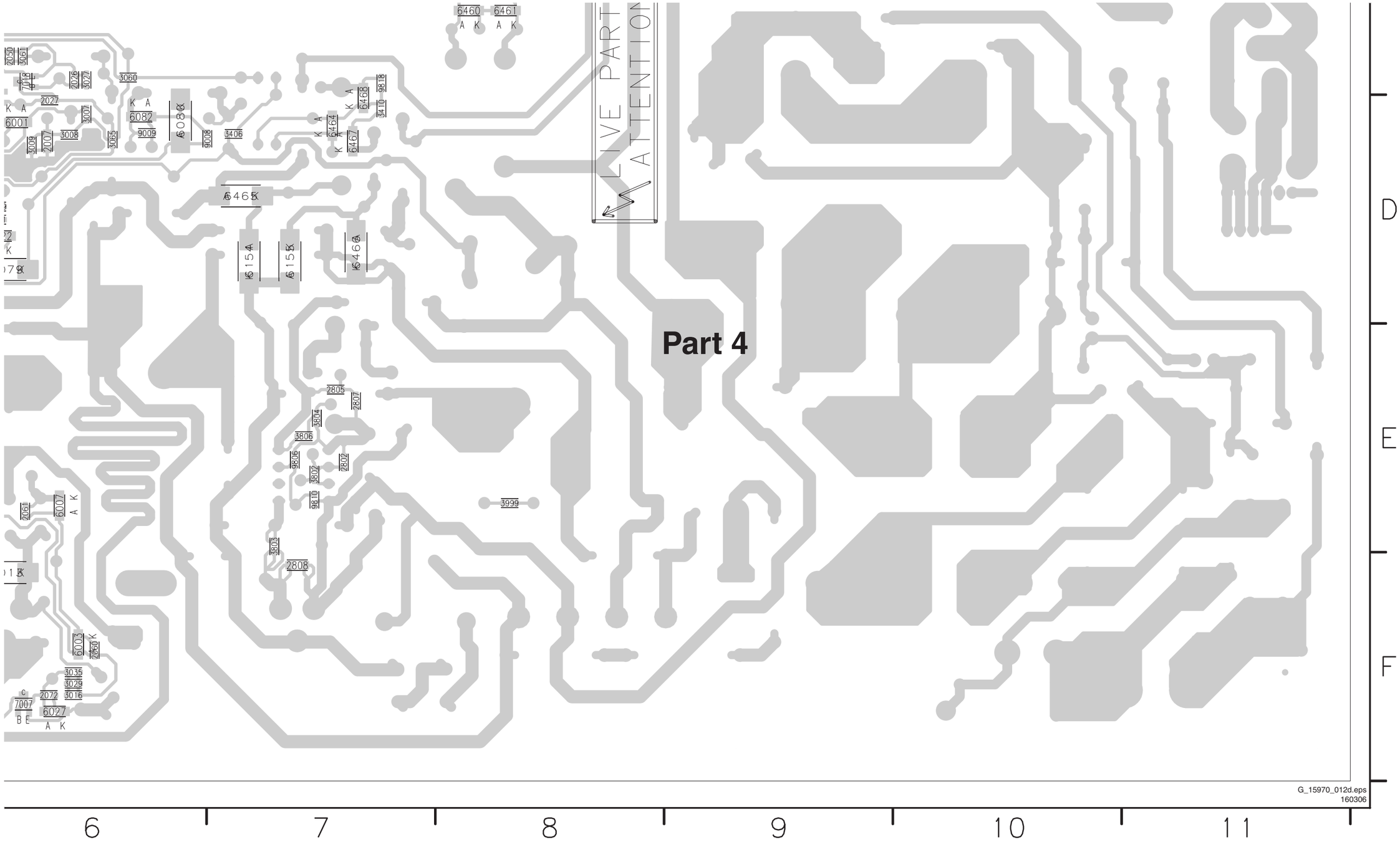

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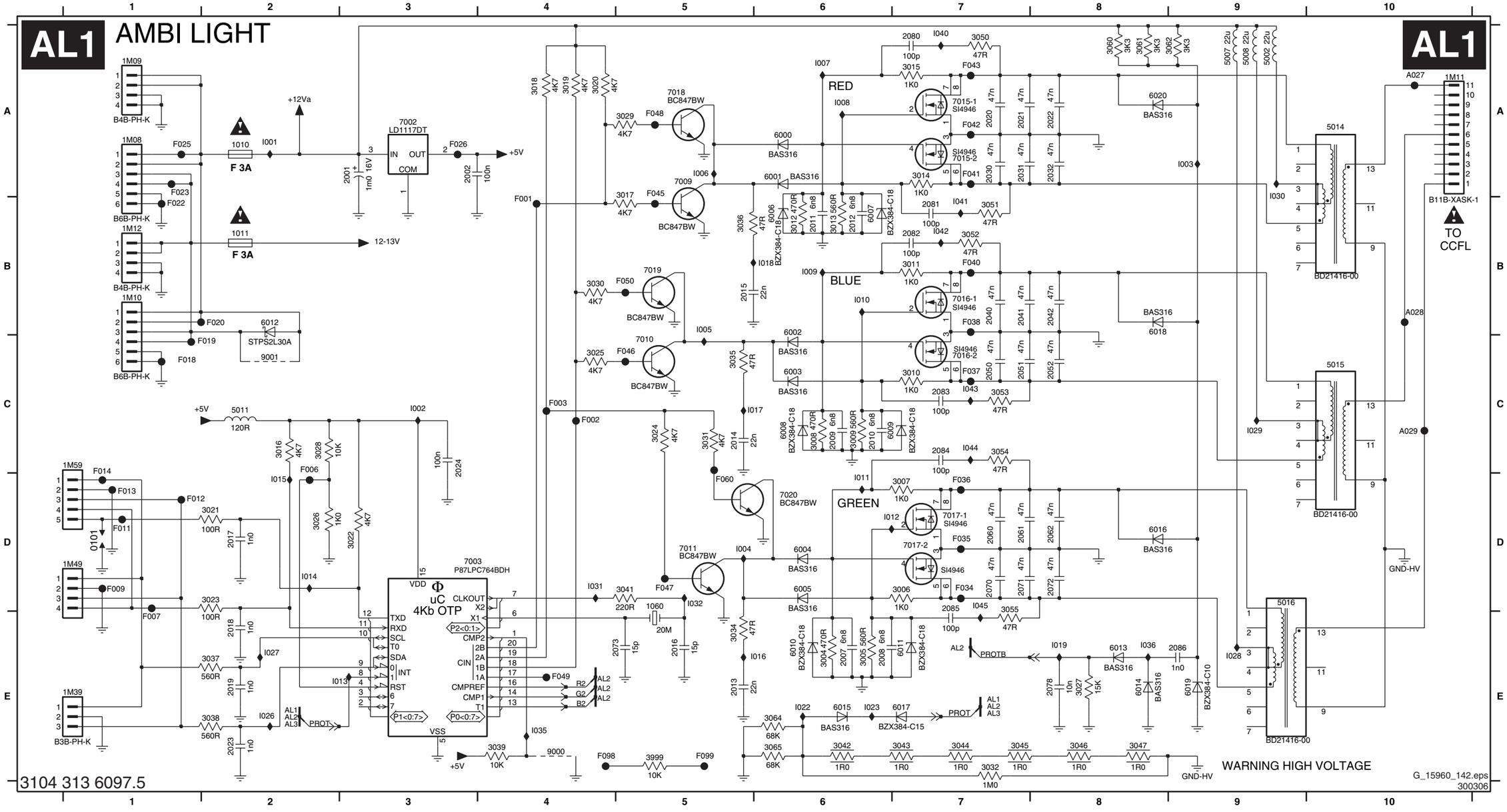
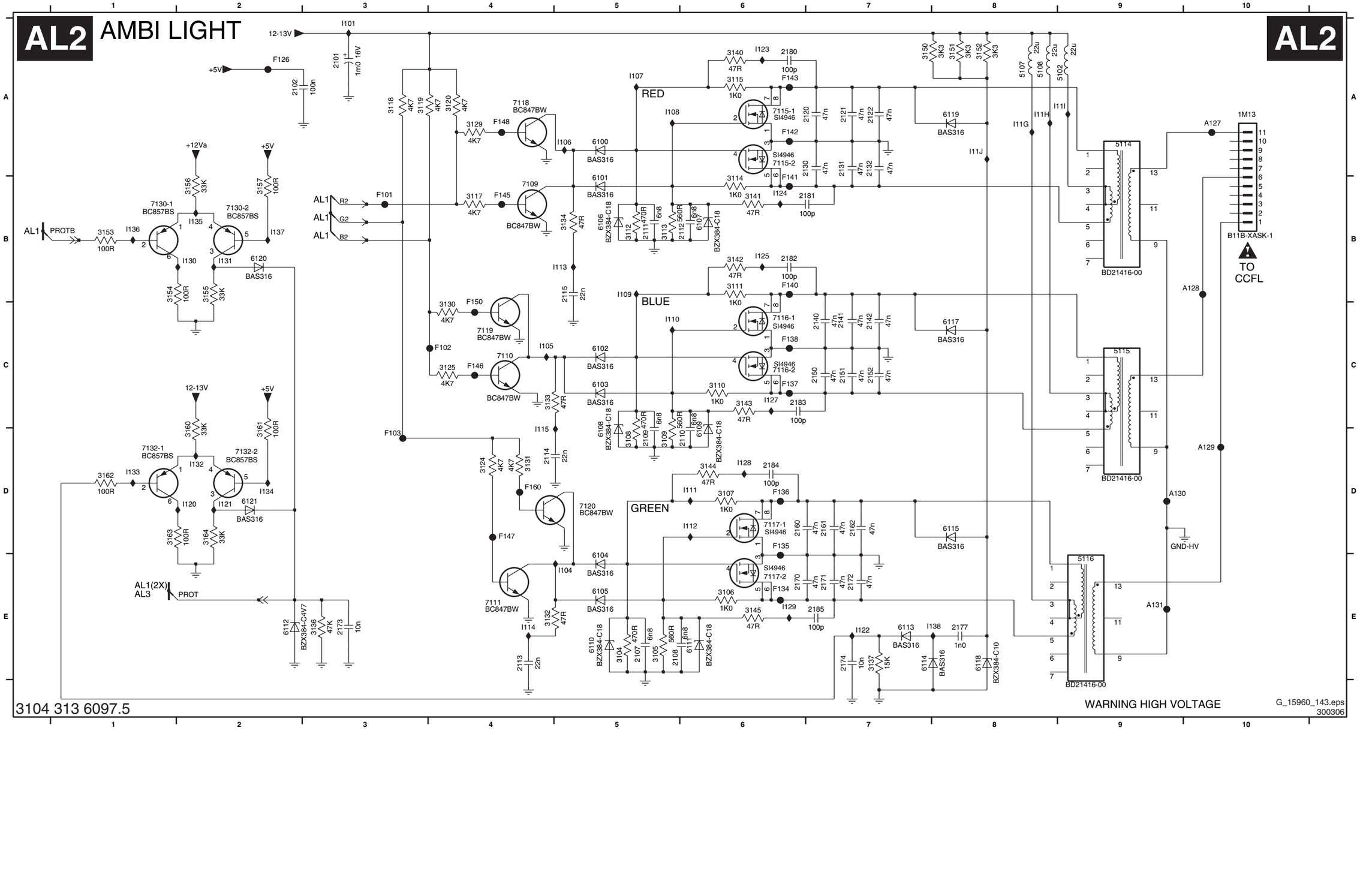
Ambi Light

0101 D1	2001 A3	2017 D2	2041 B7	2078 E8	3008 C6	3020 A4	3032 E7	3046 E8	3065 E6	6003 C6	6015 E6	7015-2 A7	A029 C10	F019 C2	F041 A7	I001 A2	I013 E3	I029 C9
1010 A2	2002 A3	2018 E2	2042 B8	2080 A7	3009 C6	3021 D2	3034 E5	3047 E8	3999 E5	6004 D6	6016 D8	7016-1 B7	F001 B4	F020 B2	F042 A7	I002 C3	I014 D2	I030 A9
1011 B2	2007 E6	2019 E2	2050 C7	2081 B7	3010 C7	3022 D3	3035 C5	3050 A7	5002 A9	6005 D6	6017 E7	7016-2 C7	F002 C4	F022 B1	F043 A7	I003 A9	I015 D2	I031 D4
1060 D5	2008 E6	2020 A7	2051 C7	2082 B7	3011 B7	3023 D2	3036 B5	3051 B7	5007 A9	6006 B6	6018 B8	7017-1 D7	F003 C4	F023 A1	F045 A5	I004 D5	I016 E6	I032 D5
1M08 A1	2009 C6	2021 A7	2052 C8	2083 C7	3012 B6	3024 C5	3037 E2	3052 B7	5008 A9	6007 B6	6019 E9	7017-2 D7	F006 C2	F025 A1	F046 C5	I005 B5	I017 C6	I035 E4
1M09 A1	2010 C6	2022 A8	2060 D7	2084 C7	3013 B6	3025 C4	3038 E2	3053 C7	5011 C2	6008 C6	6020 A8	7018 A5	F007 E1	F026 A3	F047 D5	I006 A5	I018 B6	I036 E8
1M10 B1	2011 B6	2023 E2	2061 D7	2085 D7	3014 A7	3026 D2	3039 E4	3054 C7	5014 A10	6009 C6	7002 A3	7019 B5	F009 D1	F034 D7	F048 A5	I007 A6	I019 E8	I040 A7
1M11 A10	2012 B6	2024 C3	2062 D8	2086 E9	3015 A7	3027 E8	3041 D5	3055 E7	5015 C10	6010 E6	7003 D3	7020 D6	F011 D1	F035 D7	F049 E4	I008 A6	I022 E6	I041 B7
1M12 B1	2013 E5	2030 A7	2070 D7	3004 E6	3016 C2	3028 C2	3042 E6	3060 A8	5016 D9	6011 E7	7009 A5	9000 E4	F012 D1	F036 D7	F050 B5	I009 B6	I023 E6	I042 B7
1M39 E1	2014 C5	2031 A7	2071 D7	3005 E6	3017 B5	3029 A5	3043 E7	3061 A8	6000 A6	6012 B2	7010 C5	9001 C2	F013 D1	F037 C7	F060 D5	I010 B6	I026 E2	I043 C7
1M49 D1	2015 B5	2032 A8	2072 D8	3006 D7	3018 A4	3030 B4	3044 E7	3062 A9	6001 A6	6013 E8	7011 D5	A027 A10	F014 D1	F038 B7	F098 E4	I011 D6	I027 E2	I044 C7
1M59 C1	2016 E5	2040 B7	2073 E5	3007 D7	3019 A4	3031 C5	3045 E7	3064 E6	6002 B6	6014 E8	7015-1 A7	A028 B10	F018 C1	F040 B7	F099 E5	I012 D6	I028 E9	I045 D7



Ambi Light

1M13 A10	2112 B6	2131 A7	2160 D6	2177 E8	3105 E5	3113 B5	3125 C4	3137 E7	3151 A8	3161 D2	5115 C9	6106 B5	6114 E7	7110 C4	7118 A4	A128 B10	F134 E6	F143 A6	I104 E5	I112 D6	I120 D2	I129 E6	I137 B2
2101 A3	2113 E4	2132 A7	2161 D7	2180 A6	3106 E6	3114 B6	3129 A4	3140 A6	3152 A8	3162 D1	5116 E9	6107 B6	6115 D8	7111 E4	7119 C4	A129 D10	F135 D6	F145 B4	I105 C4	I113 B5	I121 D2	I130 B2	I138 E8
2102 A2	2114 D4	2140 C7	2162 D7	2181 B7	3107 D6	3115 A6	3130 C4	3141 B6	3153 B1	3163 D1	6100 A5	6108 D5	6117 C8	7115-1 A6	7120 D5	A130 D9	F136 D6	F146 C4	I106 A5	I114 E4	I122 E7	I131 B2	
2107 E5	2115 B5	2141 C7	2170 E6	2182 B6	3108 D5	3117 B4	3131 D4	3142 B6	3154 B1	3164 D2	6101 B5	6109 D6	6118 E8	7115-2 A6	7130-1 B1	A131 E9	F137 C6	F147 D4	I107 A5	I115 D4	I123 A6	I132 D2	
2108 E5	2120 A6	2142 C7	2171 E7	2183 C6	3109 D5	3118 A3	3132 E4	3143 C6	3155 B2	5102 A9	6102 C5	6110 E5	6119 A8	7116-1 C6	7130-2 B2	F101 B3	F138 C6	F148 A4	I108 A5	I11G A8	I124 D6	I133 D1	
2109 D5	2121 A7	2150 C7	2172 E7	2184 D6	3110 C6	3119 A3	3133 C4	3144 D6	3156 B2	5107 A8	6103 C5	6111 E6	6120 B2	7116-2 C6	7132-1 D1	F102 C4	F140 B6	F150 C4	I109 B5	I11H A8	I125 B6	I134 D2	
2110 D6	2122 A7	2151 C7	2173 E3	2185 E7	3111 B6	3120 A4	3134 B5	3145 E6	3157 B2	5108 A8	6104 E5	6112 E2	6121 D2	7117-1 D6	7132-2 D2	F103 D3	F141 B6	F160 D4	I110 C5	I11I A9	I127 C6	I135 B2	
2111 B5	2130 A6	2152 C7	2174 E7	3104 E5	3112 B5	3124 D4	3136 E3	3150 A7	3160 D2	5114 A9	6105 E5	6113 E7	7109 B4	7117-2 E6	A127 A10	F126 A2	F142 A6	I101 A3	I111 D6	I11J A8	I128 D6	I136 B1	



Ambi Light

AL3 AMBI LIGHT

AL3

1M15
B03B-XASK-1
3 2 1
I202
5200
120R
I201
6200
BAS316
3200 1K0
3201 1K0
I205
6201
BAS316
I203
3202
47R
I204
I215
7200
SI2302ADS
5201 600R
5202 600R
3203 1M0
6202 BZX384-C6V8
2200 470p
3212 220R
GND-HV
I206
7201
+5V
3204 10K
I207
I208
3205 1K0
PROT
AL1(2X)
AL2
TCET1102(G)
3206 220R
2201 470n
3207 22K
GND-HV
1M16
B03B-XASK-1
3 2 1
I211
5203
120R
I210
6203
BAS316
3208 1K0
3209 1K0
I214
6204
BAS316
I212
3210
47R
I213
I209
7202
SI2302ADS
5204 600R
5205 600R
3211 1M0
6205 BZX384-C6V8
2202 470p
6206 BZX384-C12
GND-HV
GND-HV

1M15 A1
1M16 D1
2200 B3
2201 D5
2202 E3
3200 B1
3201 B1
3202 B2
3203 B2
3204 C4
3205 C6
3206 D4
3207 D5
3208 E1
3209 E1
3210 E2
3211 E2
3212 B4
5200 A1
5201 B1
5202 B1
5203 D1
5204 E1
5205 E1
6200 A2
6201 B1
6202 B2
6203 D2
6204 E1
6205 E2
6206 E4
7200 B3
7201 C6
7202 E3
I201 A2
I202 A1
I203 B2
I204 B3
I205 B1
I206 C5
I207 C5
I208 C6
I209 E4
I210 D2
I211 D1
I212 E2
I213 E3
I214 E1
I215 B4

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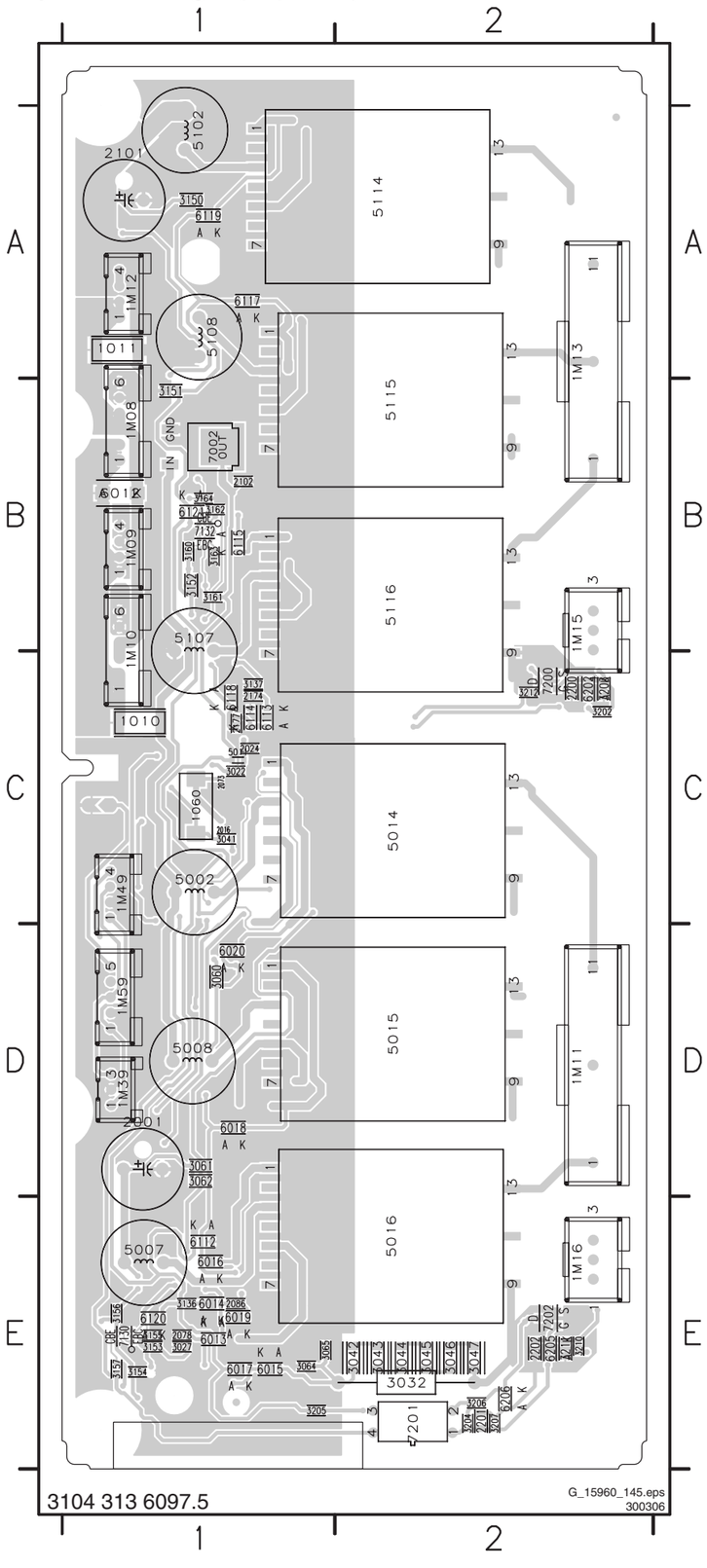
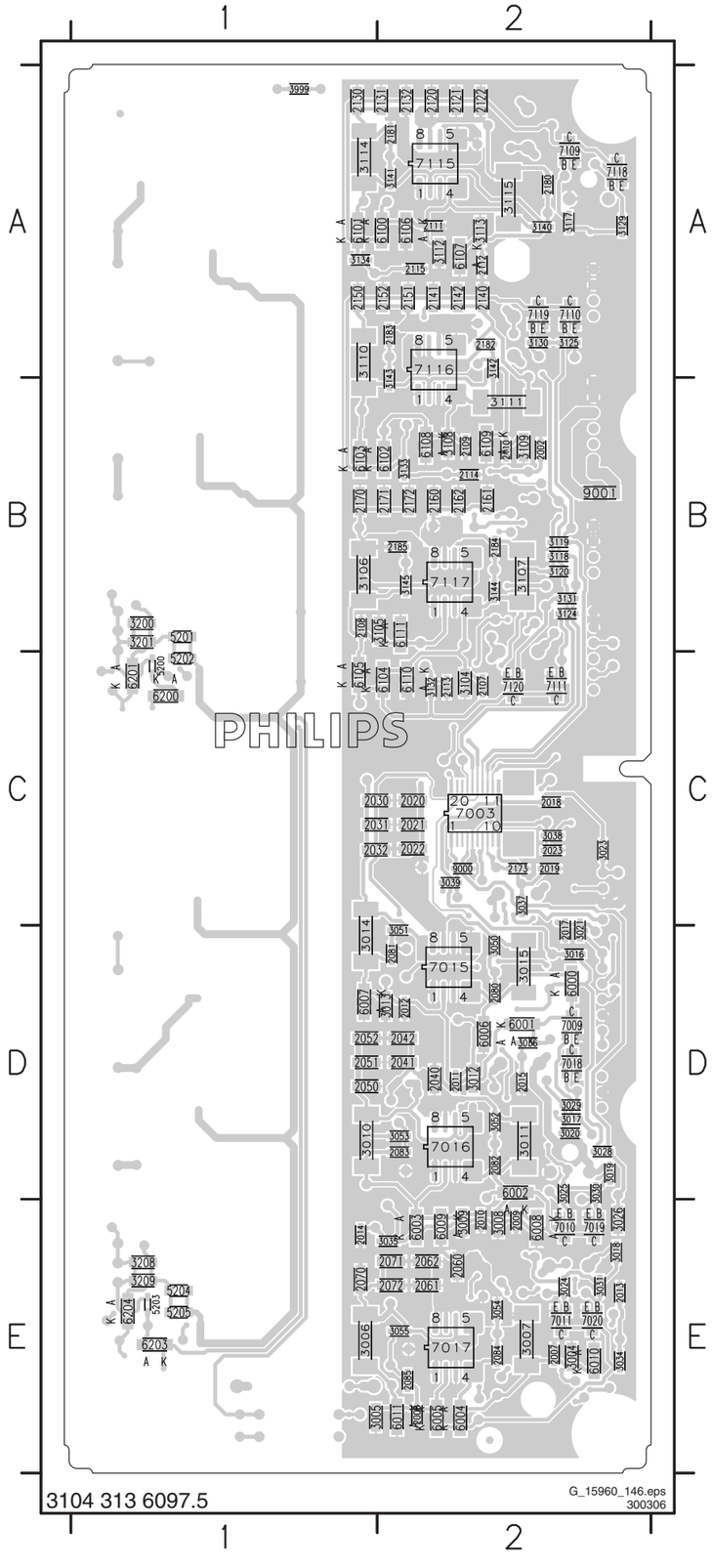
Layout Ambi Light (Top Side)



1010 C1 6012 B1
1011 A1 6013 E1
1060 C1 6014 E1
1M08 B1 6015 E1
1M09 B1 6016 E1
1M10 B1 6017 E1
1M11 D2 6018 D1
1M12 A1 6019 E1
1M13 A2 6020 D1
1M15 B2 6112 E1
1M16 E2 6113 C1
1M39 D1 6114 C1
1M49 C1 6115 B1
1M59 D1 6117 A1
2001 D1 6118 C1
2016 C1 6119 A1
2024 C1 6120 E1
2073 C1 6121 B1
2078 E1 6202 C2
2086 E1 6205 E2
2101 A1 6206 E2
2102 B1 7002 B1
2174 C1 7130 E1
2177 C1 7132 B1
2200 C2 7200 C2
2201 E2 7201 E2
2202 E2 7202 E2
3022 C1
3027 E1
3032 E2
3041 C1
3042 E2
3043 E2
3044 E2
3045 E2
3046 E2
3047 E2
3060 D1
3061 D1
3062 D1
3064 E1
3065 E1
3136 E1
3137 C1
3150 A1
3151 B1
3152 B1
3153 E1
3154 E1
3155 E1
3156 E1
3157 E1
3160 B1
3161 B1
3162 B1
3163 B1
3164 B1
3202 C2
3203 C2
3204 E2
3205 E1
3206 E2
3207 E2
3210 E2
3211 E2
3212 C2
5002 D1
5007 E1
5008 D1
5011 C1
5014 C2
5015 D2
5016 D2
5102 A1
5107 B1
5108 A1
5114 A2
5115 B2
5116 B2

Layout Ambi Light (Bottom Side)



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2007 E2 3012 D2 6008 E2
2008 E2 3013 D2 6009 E2
2009 E2 3014 C2 6010 E2
2010 E2 3015 D2 6011 E2
2011 D2 3016 D2 6100 A1
2012 D2 3017 D2 6101 A1
2013 E2 3018 E2 6102 B1
2014 E1 3019 D2 6103 B1
2015 D2 3020 D2 6104 C2
2017 D2 3021 D2 6105 C1
2018 C2 3023 C2 6106 A2
2019 C2 3024 E2 6107 A2
2020 C2 3025 D2 6108 B2
2021 C2 3026 E2 6109 B2
2022 C2 3028 D2 6110 C2
2023 C2 3029 D2 6111 B2
2030 C1 3030 D2 6200 C1
2031 C1 3031 E2 6201 C1
2032 C1 3034 E2 6203 E1
2040 D2 3035 E2 6204 E1
2041 D2 3036 D2 7003 C2
2042 D2 3037 C2 7009 D2
2050 D1 3038 C2 7010 D2
2051 D1 3039 C2 7011 E2
2052 D1 3050 D2 7015 C2
2060 E2 3051 D2 7016 D2
2061 E2 3052 D2 7017 E2
2062 E2 3053 D2 7018 D2
2070 E1 3054 E2 7019 E2
2071 E2 3055 E2 7020 E2
2072 E2 3104 C2 7109 A2
2080 D2 3105 B2 7110 A2
2081 D2 3106 B1 7111 C2
2082 D2 3107 B2 7115 A2
2083 D2 3108 B2 7116 A2
2084 E2 3109 B2 7117 B2
2085 E2 3110 A2 7118 A2
2107 C2 3111 B2 7119 A2
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2109 B2 3113 A2 9000 C2
2110 B2 3114 A1 9001 B2
2111 A2 3115 A2
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2113 C2 3118 B2
2114 B2 3119 B2
2115 A2 3120 B2
2120 A2 3124 B2
2121 A2 3125 A2
2122 A2 3129 A2
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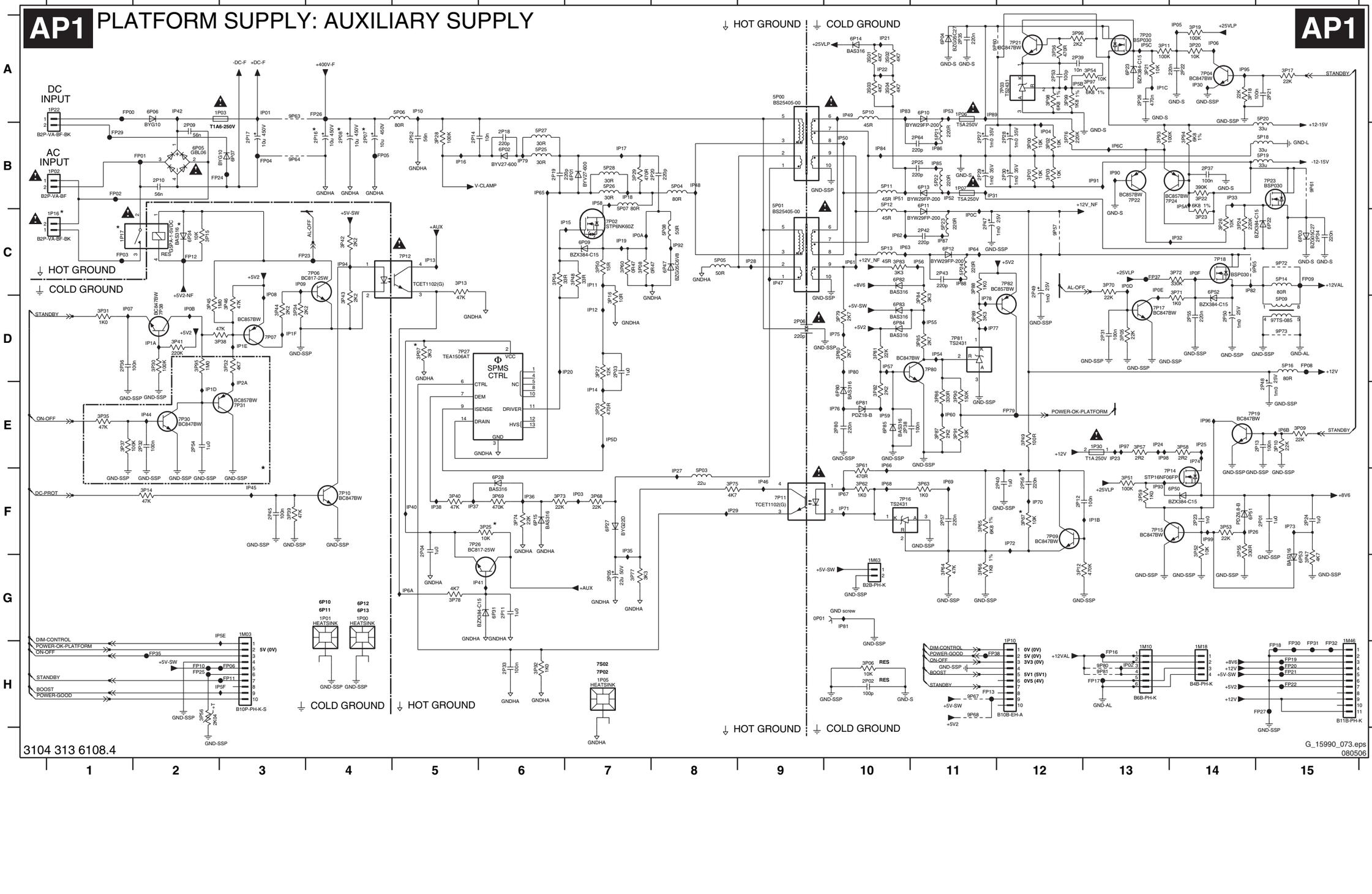
2162 B2 3200 B1
2170 B1 3201 B1
2171 B2 3208 E1
2172 B2 3209 E1
2173 C2 3999 A1
2180 A2 5200 C1
2181 A2 5201 B1
2182 A2 5202 C1
2183 A2 5203 E1
2184 B2 5204 E1
2185 B2 5205 E1
3004 E2 6000 D2
3005 E1 6001 D2
3006 E1 6002 D2
3007 E2 6003 E2
3008 E2 6004 E2
3009 E2 6005 E2
3010 D1 6006 D2

Platform Supply 42": Aux Supply

0P01 G10 1P07 B11 2P07 B4 2P20 B8 2P32 E2 2P47 C11 3P00 B12 3P12 G12 3P24 C14 3P36 A12 3P48 C7 3P60 C7 3P72 C14 3P84 D11 3P96 A12 5P05 C8 5P19 B15 6P03 C15 6P22 C15 6P81 E10 7P11 F9 7P24 B14 9P63 A3 FP03 C1 FP18 H15 FP31 H15 IP07 D1 IP13 C5 IP1F D3 IP30 A14 IP45 F3 IP57 D10 IP63 C10 IP72 F12 IP84 B10 IP96 E14
1M03 G3 1P10 H12 2P08 B4 2P21 A15 2P33 H6 2P48 E15 3P01 B12 3P13 C5 3P25 F6 3P37 E1 3P49 E12 3P61 E10 3P73 F6 3P85 D11 3P97 A13 5P06 A5 5P20 A15 6P04 A11 6P23 A13 6P82 C10 7P12 C5 7P26 F6 9P64 B3 FP04 B3 FP19 H15 FP32 H15 IP08 C3 IP14 E7 IP20 D7 IP31 B11 IP46 F9 IP58 B7 IP64 C11 IP73 F15 IP85 B11 IP97 E13
1M10 H13 1P16 C1 2P09 B2 2P22 A14 2P34 C15 2P49 C12 3P02 B12 3P14 F2 3P26 C14 3P38 D3 3P50 C7 3P62 F10 3P74 F6 3P86 E11 3P98 A12 5P07 C7 5P21 B11 6P05 B2 6P27 F7 6P83 D10 7P14 F13 7P27 D5 9P65 C15 FP05 B4 FP20 H15 FP35 H2 IP09 C3 IP15 C7 IP21 A10 IP32 C14 IP47 C9 IP59 E10 IP65 B6 IP74 E14 IP86 B11 IP98 E13
1M18 H14 1P17 C1 2P10 B2 2P23 F14 2P35 A11 2P50 D14 3P03 B12 3P15 C2 3P27 D7 3P39 F3 3P51 F13 3P63 F11 3P75 F8 3P87 E11 3P99 A12 5P08 C8 5P22 B11 6P06 A2 6P28 F6 6P84 D10 7P15 F13 7P30 E2 9P67 H11 FP06 H3 FP21 H15 FP37 C13 I0A C7 IP16 B5 IP22 A10 IP33 B14 IP48 B8 IP5A B14 IP66 E10 IP75 D10 IP87 C11 IP99 F14
1M46 H15 1P22 A1 2P11 G6 2P24 F15 2P36 D1 2P52 B5 3P04 C6 3P16 D7 3P28 B5 3P40 F5 3P52 F14 3P64 G11 3P76 B12 3P88 C11 3S01 A10 5P09 D15 5P23 C11 6P07 B3 6P85 E10 7P16 F10 7P31 E3 9P68 H11 FP08 D15 FP22 H15 FP38 H11 I0B D2 IP17 B7 IP23 E13 IP35 F7 IP49 A10 IP5B A12 IP67 F10 IP76 E10 IP88 C11
1M63 G10 1P30 E13 2P12 F12 2P25 B11 2P37 B14 2P53 A12 3P05 D13 3P17 A15 3P29 B7 3P41 D2 3P53 F14 3P65 F11 3P77 G7 3P89 D11 3S02 A10 5P10 A10 5P24 C11 6P09 C7 6P34 C2 7P02 C7 7P17 D13 7P38 D2 9P72 C15 FP09 C15 FP23 C3 FP79 E12 I0C C11 IP18 B7 IP24 E13 IP36 F6 IP50 B10 IP5C A13 IP68 F10 IP77 D11 IP89 A11
1P00 G4 2P01 F15 2P13 E15 2P26 A13 2P38 E10 2P54 E2 3P06 H10 3P18 A14 3P30 D2 3P42 C4 3P54 A13 3P66 G11 3P78 G5 3P90 E11 3S03 A10 5P11 B10 5P25 B6 6P10 A11 6P47 C8 7P03 A12 7P18 C14 7P80 D11 9P73 D15 FP10 H2 FP24 B2 IP01 A3 I0D C13 IP19 C7 IP25 E14 IP37 F5 IP51 B10 IP5D E7 IP69 F11 IP78 D11 IP90 B13
1P01 G4 2P02 H10 2P14 B5 2P27 B11 2P39 A12 2P55 D14 3P07 D5 3P19 A14 3P31 D1 3P43 D4 3P55 F14 3P67 F12 3P79 D10 3P91 E11 3S04 A10 5P12 B10 5P26 B7 6P11 B11 6P50 F14 7P04 A14 7P19 E15 7P81 D11 9P80 H13 FP11 H3 FP25 H2 I0E C13 IP1A D2 IP26 F14 IP38 F5 IP52 B11 IP5E G3 IP6A G5 IP79 B6 IP91 B13
1P02 B1 2P03 D7 2P16 B4 2P28 B12 2P40 F12 2P56 F12 3P08 C7 3P20 A14 3P32 D3 3P44 D3 3P56 H2 3P68 F7 3P80 D10 3P92 H6 5P00 A9 5P13 C10 5P27 B6 6P12 C11 6P51 F14 7P06 C4 7P20 A13 7P82 C12 9P81 H13 FP12 C2 FP26 A4 I0F C14 IP1B F13 IP27 F8 IP39 F8 IP53 F7 IP6A E15 IP7A B8 IP92 C8
1P03 A3 2P04 F5 2P17 B3 2P29 B11 2P42 C11 2P57 F11 3P09 E15 3P21 A13 3P33 E7 3P45 D2 3P57 E13 3P69 F6 3P81 D10 3P93 B13 5P01 B9 5P14 C15 5P28 B7 6P13 B11 6P52 C14 7P07 D3 7P21 A12 9P57 C12 FP00 A1 FP13 H11 FP27 H15 I0G B12 IP1C A13 IP28 C9 IP41 G5 IP54 D11 IP60 E11 IP6C B13 IP81 G10 IP93 F13
1P05 H7 2P05 C7 2P18 B6 2P30 B12 2P43 C11 2P58 F12 3P10 E15 3P22 B14 3P34 D3 3P46 D3 3P58 E14 3P70 C13 3P82 E10 3P94 B14 5P03 F8 6P14 A10 6P53 G15 7P09 F12 7P22 B13 9P60 A11 FP01 B2 FP29 B1 I0H A14 IP29 F8 IP42 A2 IP55 D11 IP61 C10 IP6D E7 IP82 C14 IP94 C4
1P06 A11 2P06 D9 2P19 B6 2P31 D13 2P45 F3 2P80 E10 3P11 A13 3P23 C14 3P35 E1 3P47 G15 3P59 F13 3P71 C14 3P83 C10 3P95 D2 5P04 B8 5P18 B15 6P02 B6 6P15 F6 6P80 E10 7P10 F4 7P23 B15 9P61 B15 FP02 B1 FP17 H13 FP30 H15 I0J A14 IP2A E3 IP44 E2 IP56 C11 IP62 C10 IP71 F10 IP83 A10 IP95 A14



Platform Supply 42”: Stby Supply

AP2 PLATFORM SUPPLY: STANDBY SUPPLY

AP2

HOT GROUND | COLD GROUND

+400V-F
5S05 80R
2S52 10n
GNDHA
6S30 BYV27-600
2S40 10n
3S31 100K
5S16 30R
IS13
5S00 BS2532O-00
IS19
5S09 80R
IS18
IS05
5S12 50R
IS07
2S04 100p
6S01 BYV27-600
IS12
3S21 1K0
FS06
+25VLP
2S41 220n
GND-SSP
3S59 220K
6S04 BZX384-C27
2S56 220n
FS01 3999 1K0 FS02
7S10 TEA1533AT/N1
VCC
SPMS CTRL
CTRL
DEM
ISENSE
DRAIN
NC
DRIVER
HVS
GND
IS30
7S02 STP6NK60Z
IS47
3S17 47R
3S22 47R
6S05 BZX384-C15
IS15
5S15 220R
IS32
IS33
IS23
2S06 220p
GND-SSP
5S10 30R
IS24
GNDHA
3S50 22R
3S08 0R
5S08 50R
IS09
3S30 12K
IS49
IS02
IS99
3S39 4R7
6S47 BZG05C6V8
IS01
3S29 470R
2S15 1u0
FS00
5S03 50R
IS37
2S13 2n2
IS38
+5V2-NF
5S14 220R
6S07 STPS8H100FP
6S02 SB360
5S11 80R
5S13
IS04
15u ★
+5V2
2S14 220u 25V
GND-SSP
6S07
1S01 HEATSINK
2S50 2m2 10V
7S31 BSP030
IS48
IS14
2S39 1u0
IS59
3S16 100R
6S31 BZX384-C15
+5V-SW
2S33 100u 25V
IS29
3S31 100K
6S11 BAS316
IS39
3S32 470K
IS17
3S33 33K
IS20
5S01 22u
IS45
3S34 33K
6S12 BYG23D
+AUX
17V (12V)
3S36 4K7
7S03 TCET1102(G)
IS71
IS03
3S28 22R
3S14 2K2
2S07 47n
IS16
IS11
3S19 15K
7S04 TS2431
IS58
3S24 6K8
3S23 6K8
3S20 82K
3S18 1K0
IS10
7S40 BC847BW
6S49 BZX384-C5V6
IS61
3S41 470R
IS68
2S54 15n
3S76 10K
3S15 10K
IS08
6S10 BZX384-C2V7
STANDBY
7S11 BC817-25W
IS27
6S13 BAS316
IS26
IS21
IS25
3S35 4K7
BZX384-C15 6S09
2S16 22u 50V
IS28
2S17 22u 50V
2S18 22n
3S37 1K0
IS53

HOT GROUND | COLD GROUND

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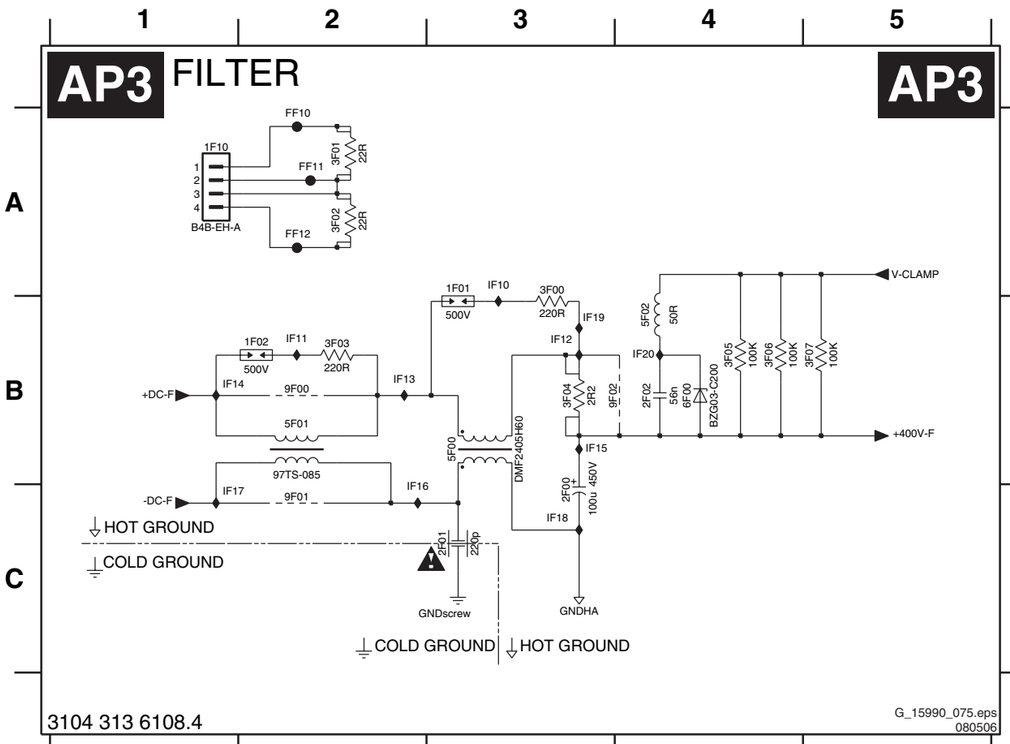
1S01 E8
2S04 B8
2S06 C7
2S07 F8
2S13 D8
2S14 E11
2S15 D4
2S16 F3
2S17 G1
2S18 G1
2S33 F12
2S39 E9
2S40 B6
2S41 C8
2S50 E9
2S52 B4
2S54 G11
2S56 C10
3999 C12
3S08 D5
3S14 F7
3S15 F11
3S16 F9
3S17 C3
3S18 F10
3S19 G8
3S20 G9
3S21 C9
3S22 D3
3S23 G8
3S24 F8
3S28 F8
3S29 D4
3S30 D4
3S31 E1
3S32 E2
3S33 E2
3S34 E2
3S35 F2
3S36 F4
3S37 G1
3S39 D5
3S41 F11
3S50 D5
3S51 B6
3S59 C9
3S76 G11
5S00 B7
5S01 E3
5S03 D8
5S05 B4
5S08 D5
5S09 C6
5S10 C6
5S11 D10
5S12 C8
5S13 D10
5S14 D8
5S15 C4
5S16 B6
6S01 C8
6S02 E8
6S04 C9
6S05 C4
6S07 D8
6S09 F2
6S10 F12
6S11 E2
6S12 E3
6S13 F1
6S30 B6
6S31 E11
6S47 D5
6S49 F11
7S02 C5
7S03 F7
7S04 G7
7S10 C1
7S11 F2
7S31 E12
7S40 G10
FS00 D5
FS01 C11
FS02 C12
FS06 C9
IS01 D2
IS02 D5
IS03 F8
IS04 E10
IS05 C8
IS07 C8
IS08 G12
IS09 D4
IS10 F10
IS11 F7
IS12 C9
IS13 B5
IS14 E8
IS15 C4
IS16 F8
IS17 E2
IS18 C6
IS19 C5
IS20 E3
IS21 F2
IS23 C8
IS24 D6
IS25 F2
IS26 F1
IS27 F1
IS28 F1
IS29 E1
IS30 C4
IS32 C5
IS33 C5
IS37 D8
IS38 D8
IS39 E1
IS45 E4
IS47 C3
IS48 E12
IS49 D5
IS53 G6
IS58 G8
IS59 F9
IS61 F11
IS68 G11
IS71 F6
IS99 D5

Platform Supply 42”: Filter



1F01 A3
1F02 B2
1F10 A1
2F00 C3
2F01 C3
2F02 B4
3F00 A3
3F01 A2
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3F03 B2
3F04 B3
3F05 B4
3F06 B4
3F07 B5
5F00 B3
5F01 B2
5F02 B4
6F00 B4
9F00 B2
9F01 C2
9F02 B4
FF10 A2
FF11 A2
FF12 A2
IF10 A3
IF11 B2
IF12 B3
IF13 B2
IF14 B1
IF15 B3
IF16 C2
IF17 C1
IF18 C3
IF19 B3
IF20 B4

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Personal Notes:

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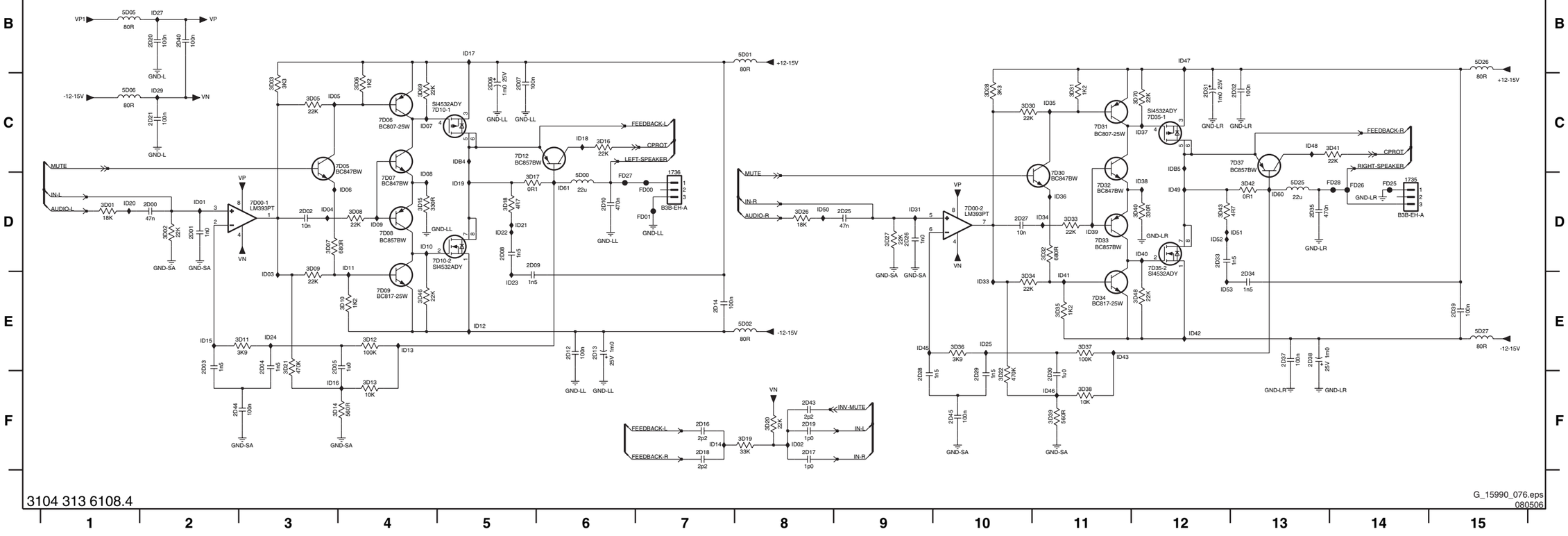
Platform Supply 42”: Audio Left/Right

1735 D14 2D04 E3 2D10 D6 2D18 F7 2D27 D10 2D33 D12 2D40 B2 3D03 C3 3D10 E4 3D16 C6 3D22 F10 3D32 D11 3D38 F11 3D46 E4 5D02 E8 7D00-1 D3 7D09 E4 7D32 D11 FD00 D7 ID01 D2 ID02 F8 ID07 C4 ID13 E4 ID19 D5 ID25 E10 ID35 C11 ID41 E11 ID48 C13 ID60 D13
1736 D7 2D05 E3 2D12 E6 2D19 F8 2D28 F9 2D34 D13 2D43 F8 3D04 F2 3D11 E3 3D17 D5 3D23 D8 3D33 D11 3D39 F11 3D47 E4 5D05 B1 7D00-2 D10 7D10-1 C4 7D33 D11 FD01 D7 ID02 F8 ID08 D4 ID14 F7 ID20 D1 ID26 C3 ID36 C12 ID42 E12 ID49 C12 ID61 D6
2D00 D2 2D06 C5 2D13 E6 2D20 B2 2D29 F10 2D35 D13 2D44 F2 3D05 C4 3D12 E4 3D18 D5 3D24 D9 3D34 E10 3D40 D12 3D48 E12 3D69 C4 5D06 C1 7D06 C4 7D10-2 D4 7D34 E11 FD25 D14 ID03 D2 ID09 D4 ID15 D2 ID21 E7 ID27 B2 ID37 C12 ID43 E11 ID50 D8 ID62 C5
2D01 D2 2D07 C5 2D14 E7 2D21 C2 2D30 F11 2D36 C12 3D01 D1 3D06 D3 3D13 F4 3D19 F8 3D25 E11 3D35 E11 3D41 C14 3D69 C12 5D25 D13 7D06 C5 7D12 C5 7D35-1 C12 FD26 D14 ID04 D3 ID10 D4 ID16 D4 ID22 E5 ID29 D9 ID38 D12 ID44 E11 ID51 D13 IDB4 C5
2D02 D3 2D08 D5 2D15 F7 2D22 C13 2D31 C12 2D37 E13 3D01 D1 3D02 D2 3D07 D3 3D14 F3 3D20 F8 3D26 E10 3D36 C10 3D42 B12 5D00 D6 7D07 D4 7D30 D11 7D35-2 D12 FD27 D6 ID05 C3 ID11 D4 ID17 B5 ID23 E5 ID30 D11 ID39 D11 ID45 E12 ID52 D12 IDB5 C5
2D03 E2 2D09 D5 2D17 F8 2D26 D9 2D32 C13 2D39 E15 3D02 D2 3D09 D3 3D15 D4 3D21 E3 3D27 C11 3D31 C11 3D37 E11 3D43 D12 5D01 B8 5D27 E15 7D08 D4 7D31 C11 7D37 C12 FD28 D14 ID06 D4 ID12 E5 ID18 C6 ID24 E6 ID31 D5 ID40 D12 ID46 F11 ID53 E12 IDB6 C5

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

AP4 AUDIO: LEFT / RIGHT



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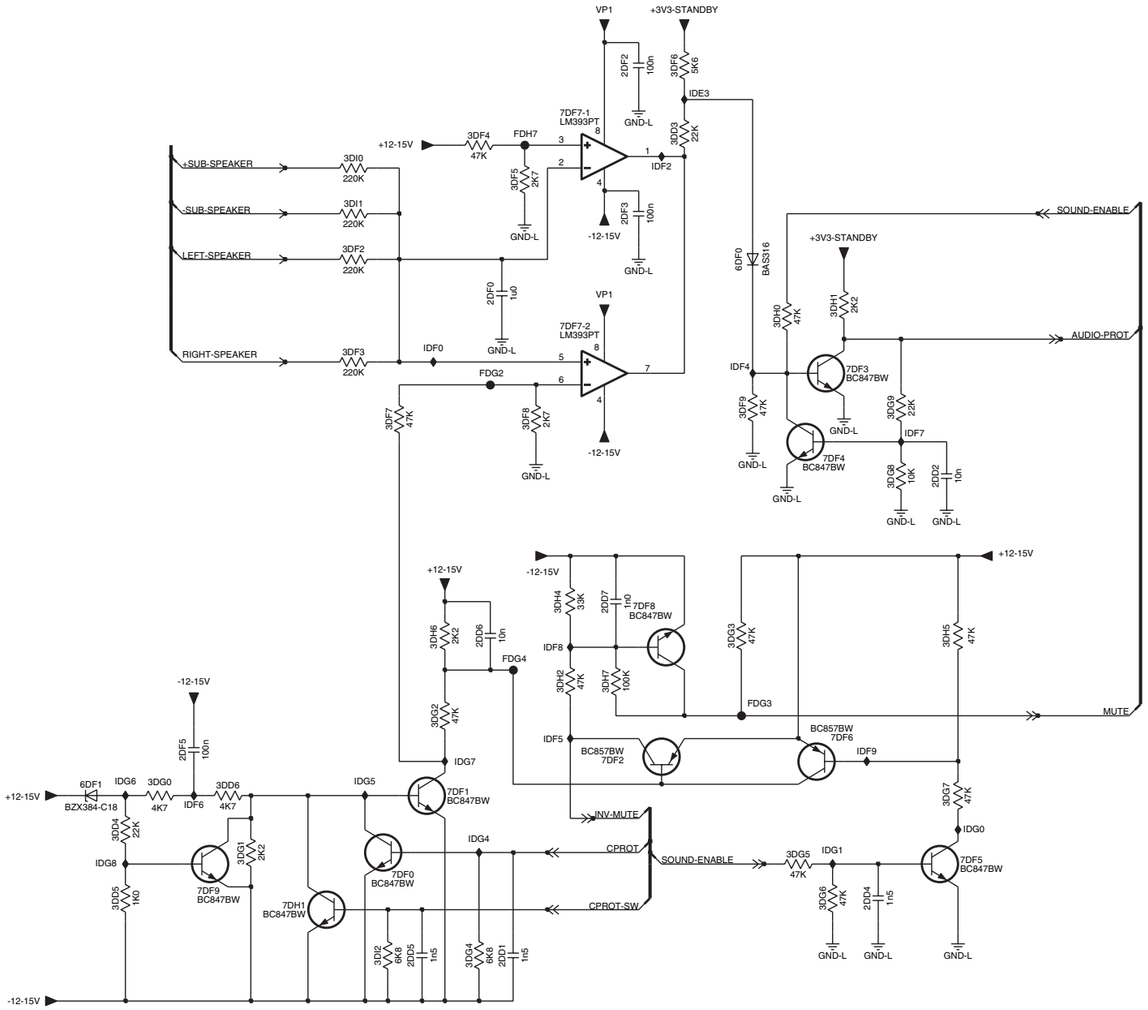
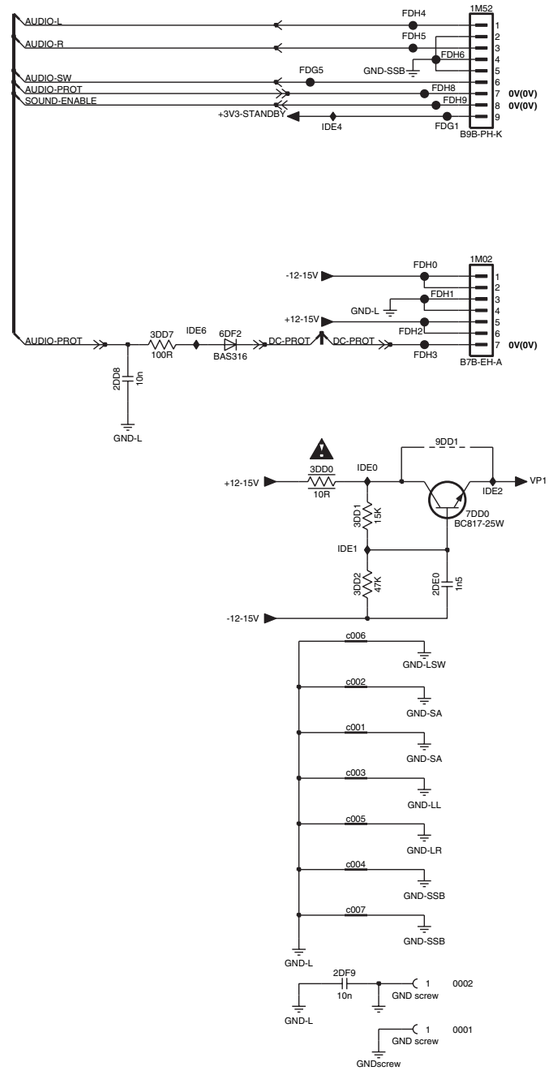
Platform Supply 42”: Audio Prot / Mute

AP5 AUDIO: PROTECTION / MUTE CONTROL

AP5





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0001 H11	IDF8 E4	
0002 H11	IDF9 F6	
1M02 C11	IDG0 F6	
1M52 B11	IDG1 G5	
2DD1 G3	IDG4 F3	
2DD2 D6	IDG5 F3	
2DD4 G6	IDG6 F1	
2DD5 G3	IDG7 F3	
2DD6 E3	IDG8 G1	
2DD7 E4	c001 F10	
2DD8 D9	c002 F10	
2DE0 E11	c003 F10	
2DF0 C3	c004 G10	
2DF2 B4	c005 G10	
2DF3 C4	c006 F10	
2DF5 F1	c007 G10	
2DF9 H10		
3DD0 E10		
3DD1 E10		
3DD2 E10		
3DD3 B4		
3DD4 F1		
3DD5 G1		
3DD6 F2		
3DD7 D9		
3DF2 C2		
3DF3 C2		
3DF4 B3		
3DF5 B3		
3DF6 B4		
3DF7 D3		
3DF8 D4		
3DF9 D5		
3DG0 F1		
3DG1 G2		
3DG2 F3		
3DG3 E5		
3DG4 G3		
3DG5 G5		
3DG6 G5		
3DG7 F6		
3DG8 D6		
3DG9 D6		
3DH0 C5		
3DH1 C5		
3DH2 E4		
3DH4 E4		
3DH5 E6		
3DH6 E3		
3DH7 E4		
3DI0 B2		
3DI1 C2		
3DI2 G3		
6DF0 C5		
6DF1 F1		
6DF2 D10		
7DD0 E11		
7DF0 G3		
7DF1 F3		
7DF2 F4		
7DF3 D6		
7DF4 D6		
7DF5 G6		
7DF6 F6		
7DF7-1 B4		
7DF7-2 C4		
7DF8 E4		
7DF9 G1		
7DH1 G2		
9DD1 D11		
FDG1 B11		
FDG2 D3		
FDG3 F5		
FDG4 E3		
FDG5 B10		
FDH0 C11		
FDH1 C11		
FDH2 D11		
FDH3 D11		
FDH4 B11		
FDH5 B11		
FDH6 B11		
FDH7 B4		
FDH8 B11		
FDH9 B11		
IDE0 E11		
IDE1 E10		
IDE2 E11		
IDE3 B5		
IDE4 B10		
IDE6 D10		
IDF0 C3		
IDF2 B4		
IDF4 D5		
IDF5 F4		
IDF6 F1		
IDF7 D6		

Platform Supply 42”: Audio Prot / Mute

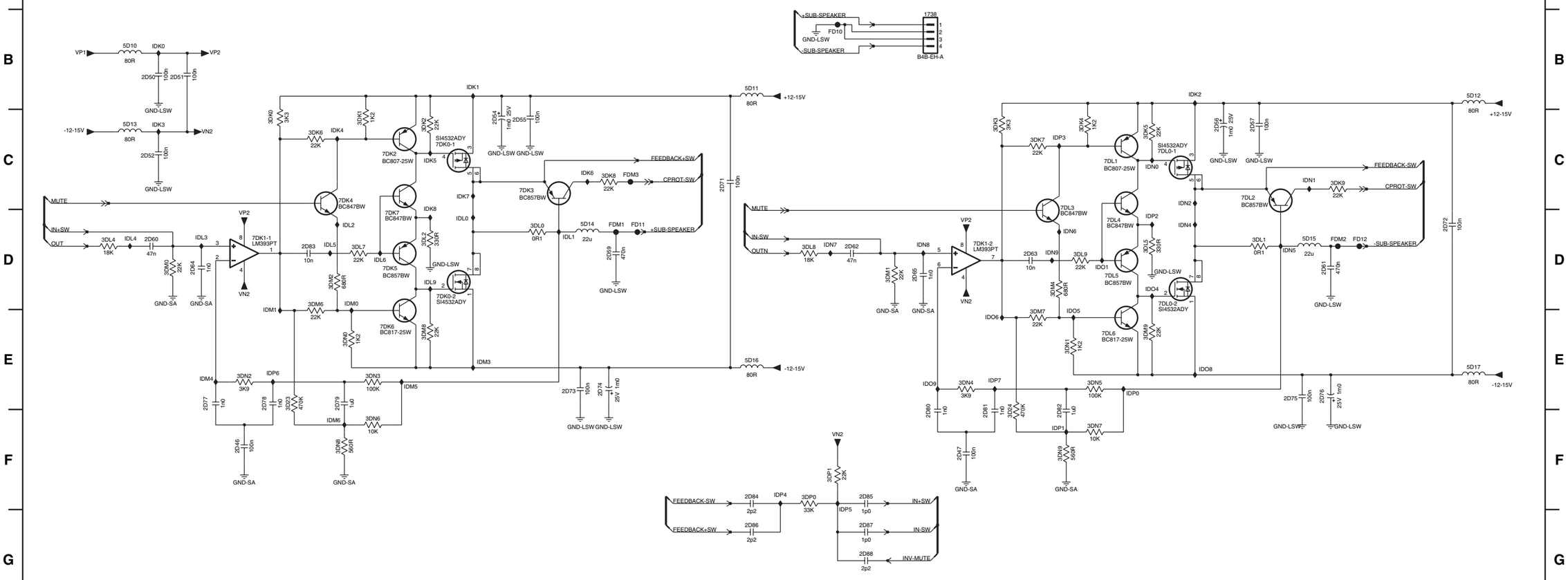
1738 B9 2D46 F3 2D47 F10 2D50 B2 2D51 B2 2D52 C2 2D54 C5 2D55 C5 2D56 C12 2D57 C13 2D59 D6 2D60 D2 2D61 D13 2D62 D9 2D63 D10 2D64 D2 2D65 D9 2D71 C7 2D72 D15 2D73 E6 2D74 E6 2D75 E13 2D76 E13 2D77 E2 2D78 E3 2D79 E6 2D80 F9 2D81 F10 2D82 F11 2D83 D3 2D84 F8 2D85 F9 2D86 G8 2D87 G9 2D88 G9 3D24 F10 3DK0 C3 3DK1 C4 3DK2 C4 3DK3 C10 3DK4 C11 3DK5 C12 3DK6 C3 3DK7 C11 3DK8 C6 3DK9 C14 3DL0 D6 3DL1 D13 3DL2 D4 3DL4 D1 3DL5 D12 3DL7 D4 3DL8 E8 3DL9 D11 3DM0 D2 3DM1 D9 3DM2 D3 3DM4 D11 3DM6 D3 3DM7 E11 3DM8 E4 3DM9 E12 3DN0 E4 3DN1 E11 3DN2 E3 3DN3 E4 3DN4 E10 3DN5 E11 3DN6 F4 3DN7 F11 3DN8 F4 3DN9 F11 3DP0 F8 3DP1 F8 5D10 B1 5D11 B8 5D12 B15 5D13 C1 5D14 D6 5D15 D13 5D16 E8 5D17 E15 7DK0-1 C5 7DK0-2 D5 7DK1-1 D3 7DK1-2 D10 7DK2 C4 7DK3 C5 7DK4 C4 7DK5 D4 7DK6 E4 7DK7 D4 7DL0-1 C12 7DL0-2 D12 7DL1 C11 7DL2 C13 7DL3 D11 7DL4 D11 7DL5 D11 7DL6 E11 FD10 B9 FD11 D7 FD12 D14 FDM1 D6 FDM2 D14 FDM3 C6 IDK0 B2 IDK1 B5 IDK2 B12 IDK3 C2 IDK4 C4 IDK5 C4 IDK6 C6 IDK7 C5 IDK8 C4 IDL0 D5 IDL1 D6 IDL2 D4 IDL3 D2 IDL4 D1 IDL5 D3 IDL6 D4 IDL9 D4 IDM0 D4 IDM1 E3 IDM3 E5 IDM4 E2 IDM5 E4 IDM6 F3 IDN0 C12 IDN1 C13 IDN2 C12 IDN4 D12 IDN5 D13 IDN6 D11 IDN7 D8 IDN8 D9 IDN9 D11 IDO1 D11 IDO4 D12 IDO5 E11 IDO6 E10 IDO8 E12 IDP1 F11 IDP2 D12 IDP3 C11 IDP4 F8 IDP5 F9 IDP6 E3 IDP7 E10

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

AP6 AUDIO: SUBWOOFER

AP6

A B C D E F G



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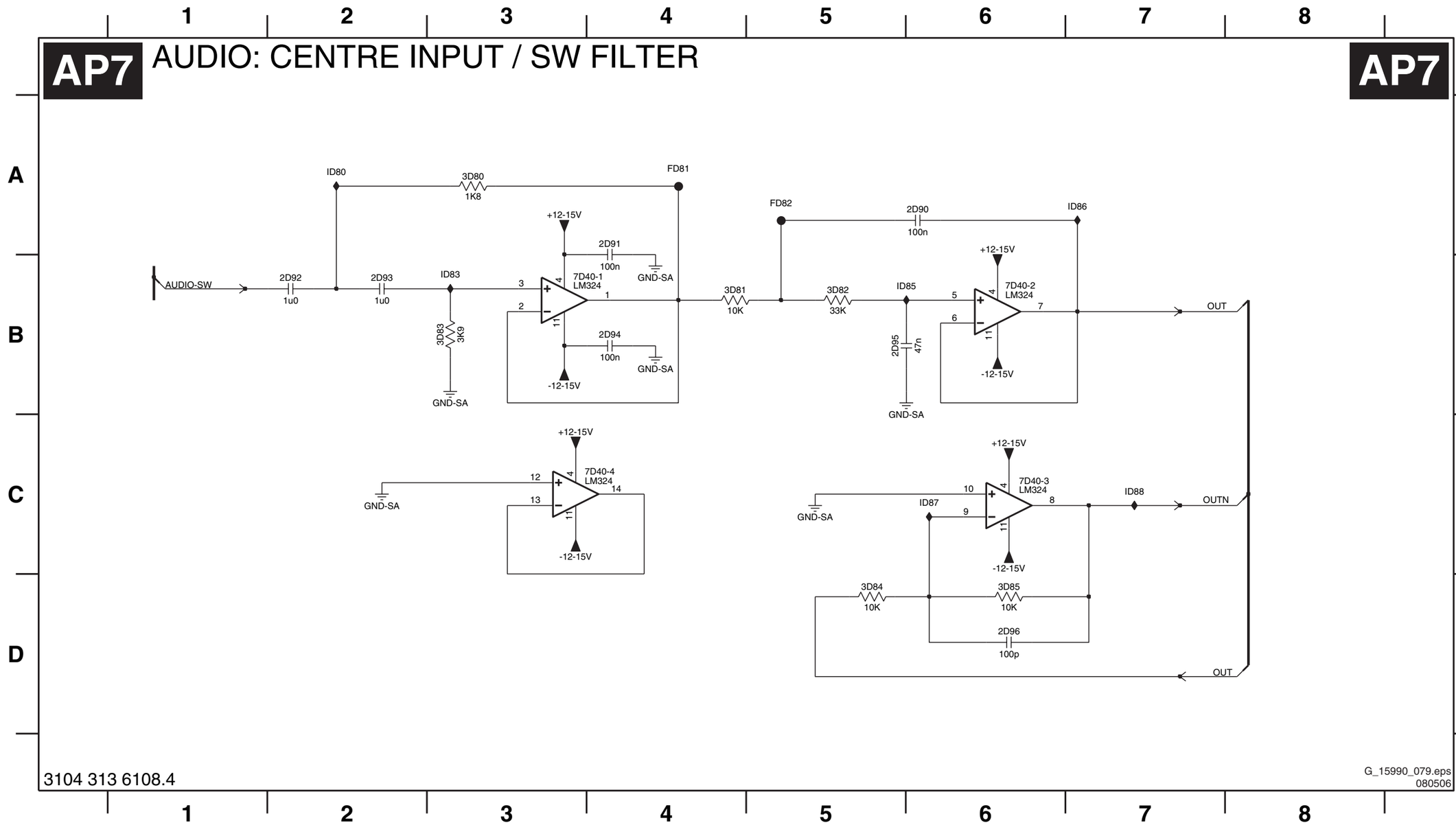
Platform Supply 42": Audio Centre

AP7 AUDIO: CENTRE INPUT / SW FILTER

AP7



2D90 A6
2D91 A4
2D92 B2
2D93 B2
2D94 B4
2D95 B5
2D96 D6
3D80 A3
3D81 B4
3D82 B5
3D83 B3
3D84 D5
3D85 D6
7D40-1 B3
7D40-2 B6
7D40-3 C6
7D40-4 C3
FD81 A4
FD82 A5
ID80 A2
ID83 B3
ID85 B6
ID86 A7
ID87 C6
ID88 C7

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Platform Supply 42": SRP List

Net Name	Diagram
+12-15V	AP1 (4x)
+12-15V	AP4 (4x)
+12-15V	AP5 (12x)
+12-15V	AP6 (4x)
+12-15V	AP7 (8x)
+12V	AP1 (4x)
+12V_NF	AP1 (2x)
+12VAL	AP1 (2x)
+25VLP	AP1 (4x)
+25VLP	AP2 (1x)
+3V3-STANDBY	AP5 (3x)
+400V-F	AP1 (2x)
+400V-F	AP2 (2x)
+400V-F	AP3 (2x)
+5V2	AP1 (6x)
+5V2	AP2 (1x)
+5V2-NF	AP1 (1x)
+5V2-NF	AP2 (1x)
+5V-SW	AP1 (6x)
+5V-SW	AP2 (1x)
+8V6	AP1 (3x)
+AUX	AP1 (2x)
+AUX	AP2 (1x)
+DC-F	AP1 (2x)
+DC-F	AP3 (2x)
+SUB-SPEAKER	AP5 (1x)
+SUB-SPEAKER	AP6 (2x)
-12-15V	AP1 (4x)
-12-15V	AP4 (6x)
-12-15V	AP5 (14x)
-12-15V	AP6 (6x)
-12-15V	AP7 (8x)
AL-OFF	AP1 (2x)
AUDIO-L	AP4 (1x)
AUDIO-L	AP5 (1x)
AUDIO-PROT	AP5 (3x)
AUDIO-R	AP4 (1x)
AUDIO-R	AP5 (1x)
AUDIO-SW	AP5 (1x)
AUDIO-SW	AP7 (1x)
BOOST	AP1 (2x)
CPROT	AP4 (2x)
CPROT	AP5 (1x)
CPROT-SW	AP5 (1x)
CPROT-SW	AP6 (2x)
-DC-F	AP1 (2x)
-DC-F	AP3 (2x)
DC-PROT	AP1 (1x)
DC-PROT	AP5 (2x)
DIM-CONTROL	AP1 (2x)
FEEDBACK+SW	AP6 (2x)
FEEDBACK-L	AP4 (2x)
FEEDBACK-R	AP4 (2x)
FEEDBACK-SW	AP6 (2x)
GND-AL	AP1 (2x)
GNDHA	AP1 (40x)
GNDHA	AP2 (20x)
GNDHA	AP3 (2x)
GNDHOT	AP3 (2x)
GND-L	AP1 (2x)
GND-L	AP4 (4x)
GND-L	AP5 (34x)
GND-LL	AP4 (7x)
GND-LL	AP5 (1x)
GND-LR	AP4 (7x)
GND-LR	AP5 (1x)
GND-LSW	AP5 (1x)
GND-LSW	AP6 (15x)
GND-S	AP1 (11x)
GND-SA	AP4 (8x)
GND-SA	AP5 (2x)
GND-SA	AP6 (8x)
GND-SA	AP7 (6x)
GNDscrew	AP3 (2x)
GNDscrew	AP5 (2x)
GND-SSB	AP5 (3x)
GND-SSP	AP1 (51x)
GND-SSP	AP2 (15x)
IN+SW	AP6 (2x)
IN-L	AP4 (2x)
IN-R	AP4 (2x)
IN-SW	AP6 (2x)
INV-MUTE	AP4 (1x)
INV-MUTE	AP5 (1x)
INV-MUTE	AP6 (1x)
LEFT-SPEAKER	AP4 (1x)
LEFT-SPEAKER	AP5 (1x)
MUTE	AP4 (2x)
MUTE	AP5 (1x)
MUTE	AP6 (2x)
ON-OFF	AP1 (3x)
OUT	AP6 (1x)
OUT	AP7 (2x)
OUTN	AP6 (1x)
OUTN	AP7 (1x)
POWER-GOOD	AP1 (2x)
POWER-OK-PLATFORM	AP1 (2x)
RIGHT-SPEAKER	AP4 (1x)
RIGHT-SPEAKER	AP5 (1x)
SOUND-ENABLE	AP5 (3x)
STANDBY	AP1 (5x)
STANDBY	AP2 (1x)
-SUB-SPEAKER	AP5 (1x)
-SUB-SPEAKER	AP6 (2x)
V-CLAMP	AP1 (1x)
V-CLAMP	AP3 (2x)
VN	AP4 (4x)

1.1. Introduction

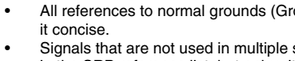
SRP (Service Reference Protocol) is a software tool that creates a list with all references to signal lines. The list contains references to the signals within all schematics of a PWB. It replaces the text references currently printed next to the signal names in the schematics. These printed references are created manually and are therefore not guaranteed to be 100% correct. In addition, in the current crowded schematics there is often none or very little place for these references.
Some of the PWB schematics will use SRP while others will still use the manual references. Either there will be an SRP reference list for a schematic, or there will be printed references in the schematic.

1.2. Non-SRP Schematics

There are several different signals available in a schematic:

1.2.1. Power Supply Lines

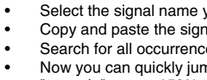
All power supply lines are available in the supply line overview (see chapter 6). In the schematics (see chapter 7) is not indicated where supplies are coming from or going to.
It is however indicated if a supply is incoming (created elsewhere), or outgoing (created or adapted in the current schematic).



Outgoing Incoming

1.2.2. Normal Signals

For normal signals, a schematic reference (e.g. B14b) is placed next to the signals.

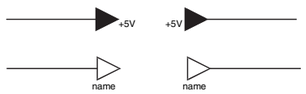


1.2.3. Grounds

For normal and special grounds (e.g. GNDHOT or GND3V3 etc.), nothing is indicated.

1.3. SRP Schematics

SRP is a tool, which automatically creates a list with signal references, indicating on which schematic the signals are used.
A reference is created for all signals indicated with an SRP symbol, these symbols are:

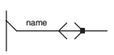


Power supply line.

Stand alone signal or switching line (used as less as possible).

Signal line into a wire tree.

Switching line into a wire tree.



Bi-directional line (e.g. SDA) into a wire tree.

Signal line into a wire tree, its direction depends on the circuit (e.g. ingoing for PDP, outgoing for LCD sets).

Remarks:

- When there is a black dot on the "signal direction arrow" it is an SRP symbol, so there will be a reference to the signal name in the SRP list.
- All references to normal grounds (Ground symbols without additional text) are not listed in the reference list, this to keep it concise.
- Signals that are not used in multiple schematics, but only once or several times in the same schematic, are included in the SRP reference list, but only with one reference.

Additional Tip:

When using the PDF service manual file, you can very easily search for signal names and follow the signal over all the schematics. In Adobe PDF reader:

- Select the signal name you want to search for, with the "Select text" tool.
- Copy and paste the signal name in the "Search PDF" tool.
- Search for all occurrences of the signal name.
- Now you can quickly jump between the different occurrences and follow the signal over all schematics. It is advised to "zoom in" to e.g. 150% to see clearly, which text is selected. Then you can zoom out, to get an overview of the complete schematic.

PS. It is recommended to use at least Adobe PDF (reader) version 6.x, due to better search possibilities in this version.

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Layout Platform Supply 42” (Top Side)

0001	A5	1M03	E9	1P06	D7	2D31	A9	2P06	C6	2P20	C5	2S04	D3	3D15	B8	3F03	B1	3P58	E9	5D10	A6	5D27	B9	5P07	D5	5P19	C9	6P01	D5	6S30	D2	9D09	B8	9D50	B7	9D61	B7	9D77	A6	9F02	A2	9P12	C7	9P22	E8	9P33	E6	9P43	D4	9P53	D8	9P67	E7	9S16	E5
0002	A9	1M10	C9	1P07	C8	2D38	A9	2P07	C2	2P27	D9	2S06	D3	3D28	A9	3F04	A2	3P60	C4	5D11	B6	5F00	B2	5P08	C4	5P20	C9	6P02	C5	7P02	D4	9D11	B7	9D51	B7	9D62	B7	9D78	B7	9F01	E7	9P13	D8	9P23	E7	9P34	E8	9P44	E8	9P54	E9	9P68	E7	9S17	E4
0P01	C7	1M18	C9	1P10	E7	2D54	A7	2P08	C2	2P28	C9	2S14	E6	3D40	A9	3F05	B3	3P77	D4	5D12	B5	5F01	A1	5P09	C9	5S00	C2	6P05	E2	7P11	D4	9D16	B8	9D52	B6	9D63	B5	9DD5	A9	9P02	E9	9P14	D9	9P24	E7	9P35	E6	9P45	C4	9P55	D9	9P69	C8	9S18	D4
1735	A9	1M46	E8	1P16	E1	2D56	A4	2P09	D1	2P29	D9	2S16	C2	3DK0	A6	3F06	B3	3P77	D4	5D13	B6	5F02	B4	5P10	D7	5S03	E3	6P10	E7	7P12	D4	9D17	A8	9D54	B6	9D64	B6	9DD6	B9	9P05	E9	9P15	D9	9P25	C6	9P36	D1	9P46	D9	9P57	D7	9P73	C8	9S24	C4
1736	A8	1M52	B9	1P17	E2	2D74	A7	2P10	E1	2P30	C9	2S17	C3	3DK3	A5	3F07	B3	3P78	D4	5D14	B5	5F03	B3	5P11	C7	5S05	C2	6P11	E8	7P14	E9	9D18	A8	9D55	A8	9D65	A5	9DD7	B9	9P06	E9	9P16	E1	9P26	E7	9P37	C6	9P47	C3	9P58	D8	9P75	D4	9S25	C2
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1F02	B1	1P01	D6	1S01	D6	2F01	A1	2P17	D2	2P49	C7	2S50	E4	3F00	B2	3F09	D5	3P79	D4	5D17	B5	5F06	B5	5P14	C8	5S10	E5	6P14	D7	7S04	D3	9D23	A8	9D58	B6	9D68	A6	9DE1	B7	9P09	E9	9P19	E3	9P29	E8	9P40	D9	9P50	E9	9P63	C1	9P79	D7		
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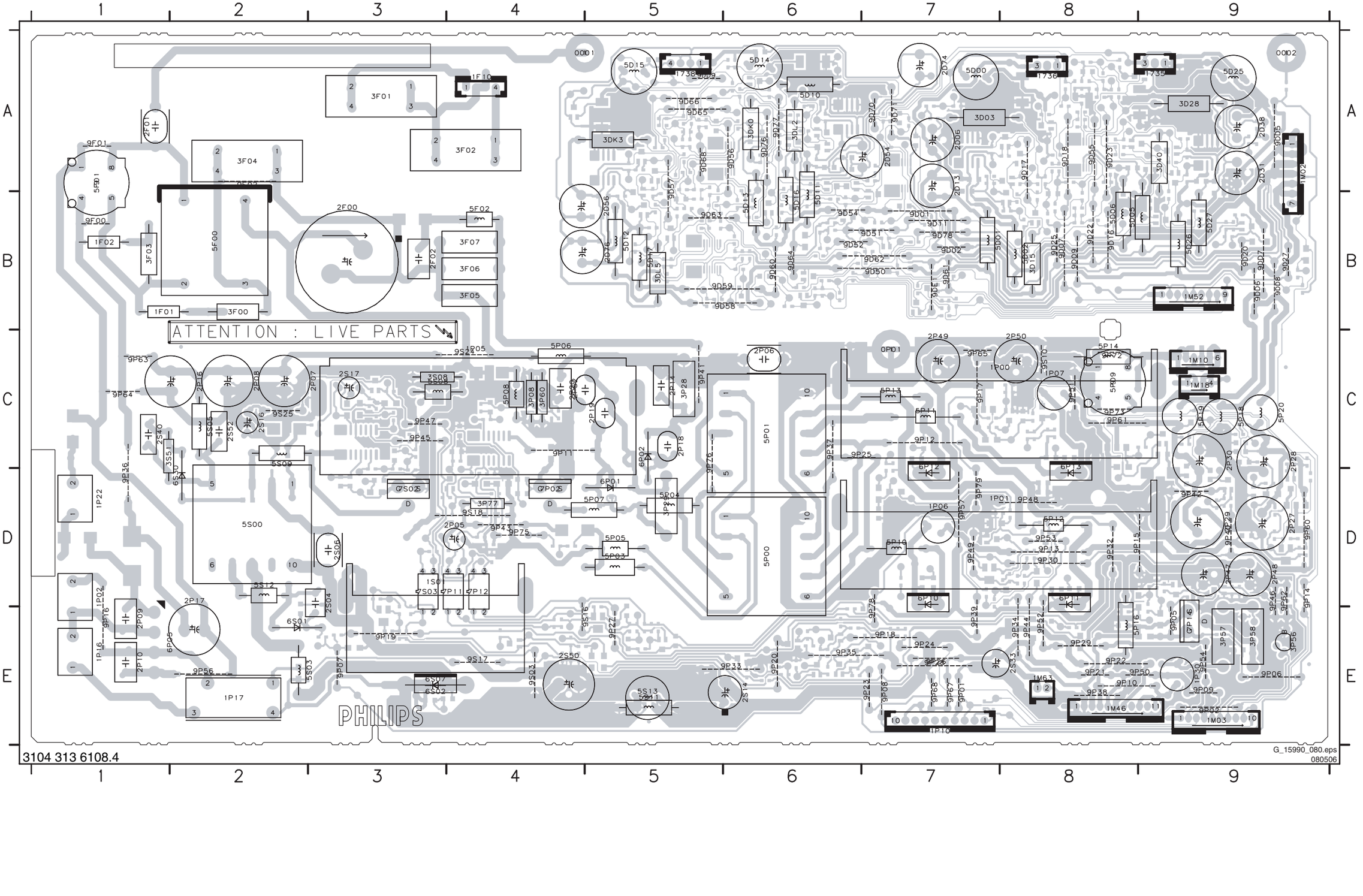
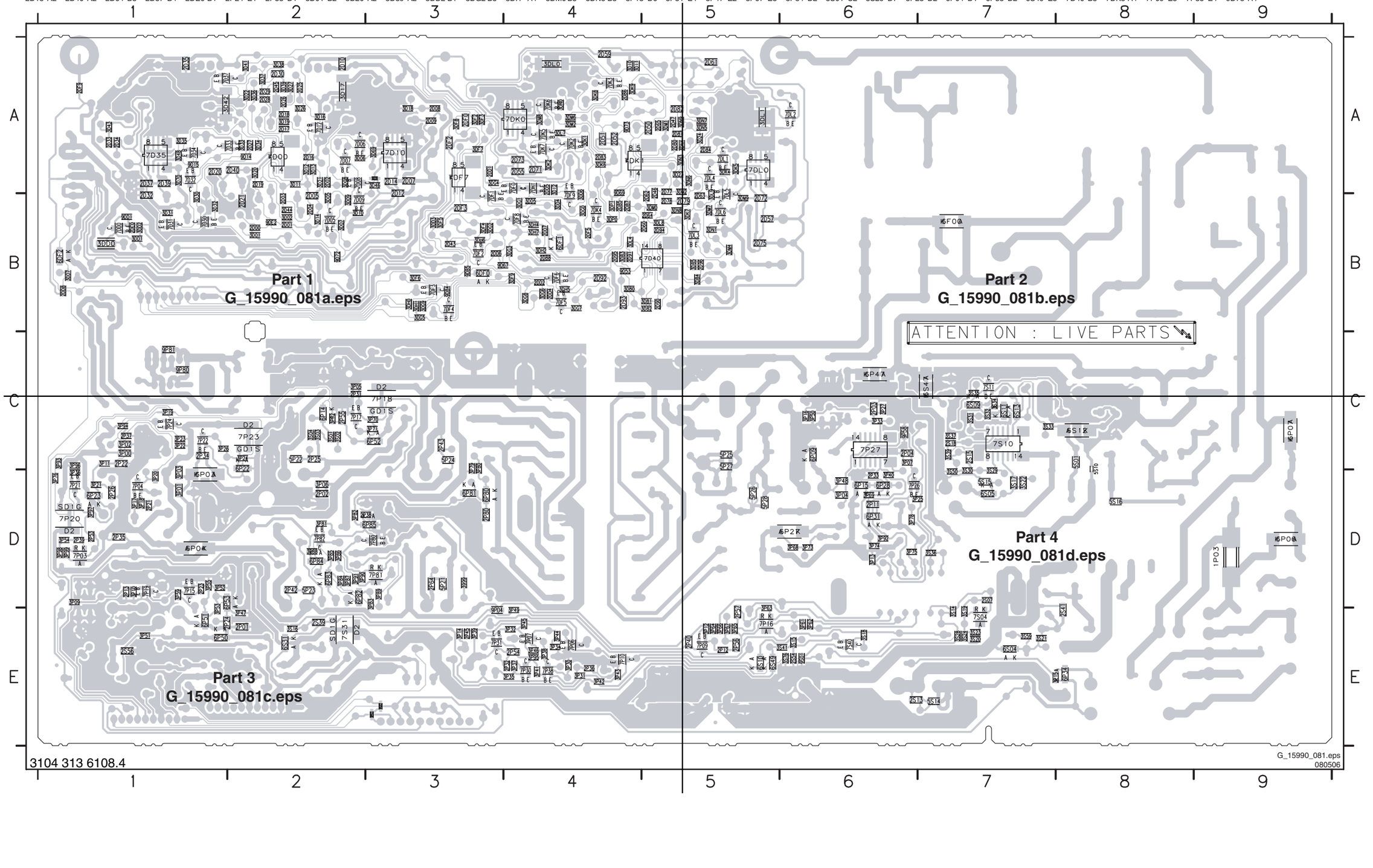
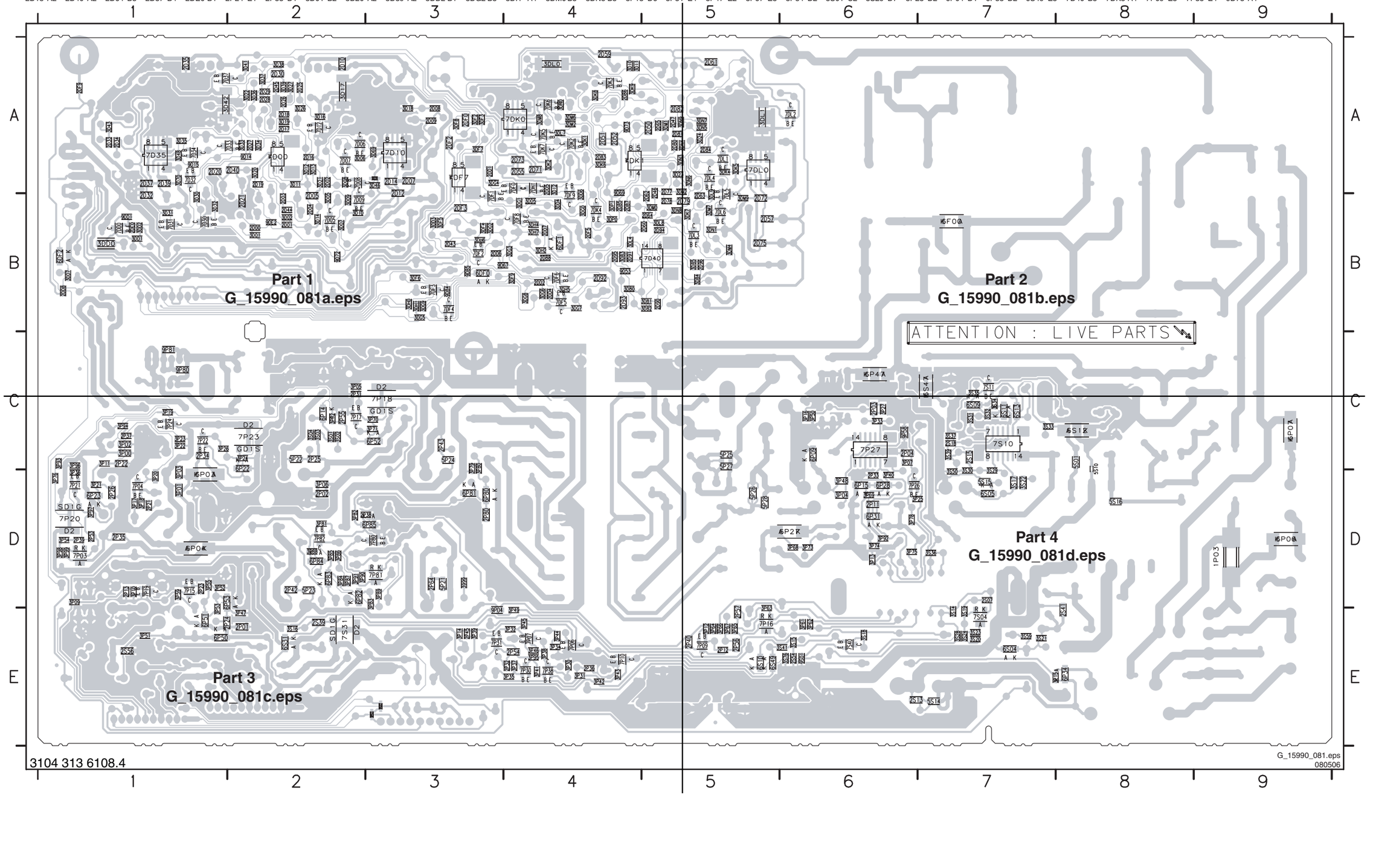


Layout Platform Supply 42” (Overview Bottom Side)



Layout Platform Supply 42” (Part 1 Bottom Side)



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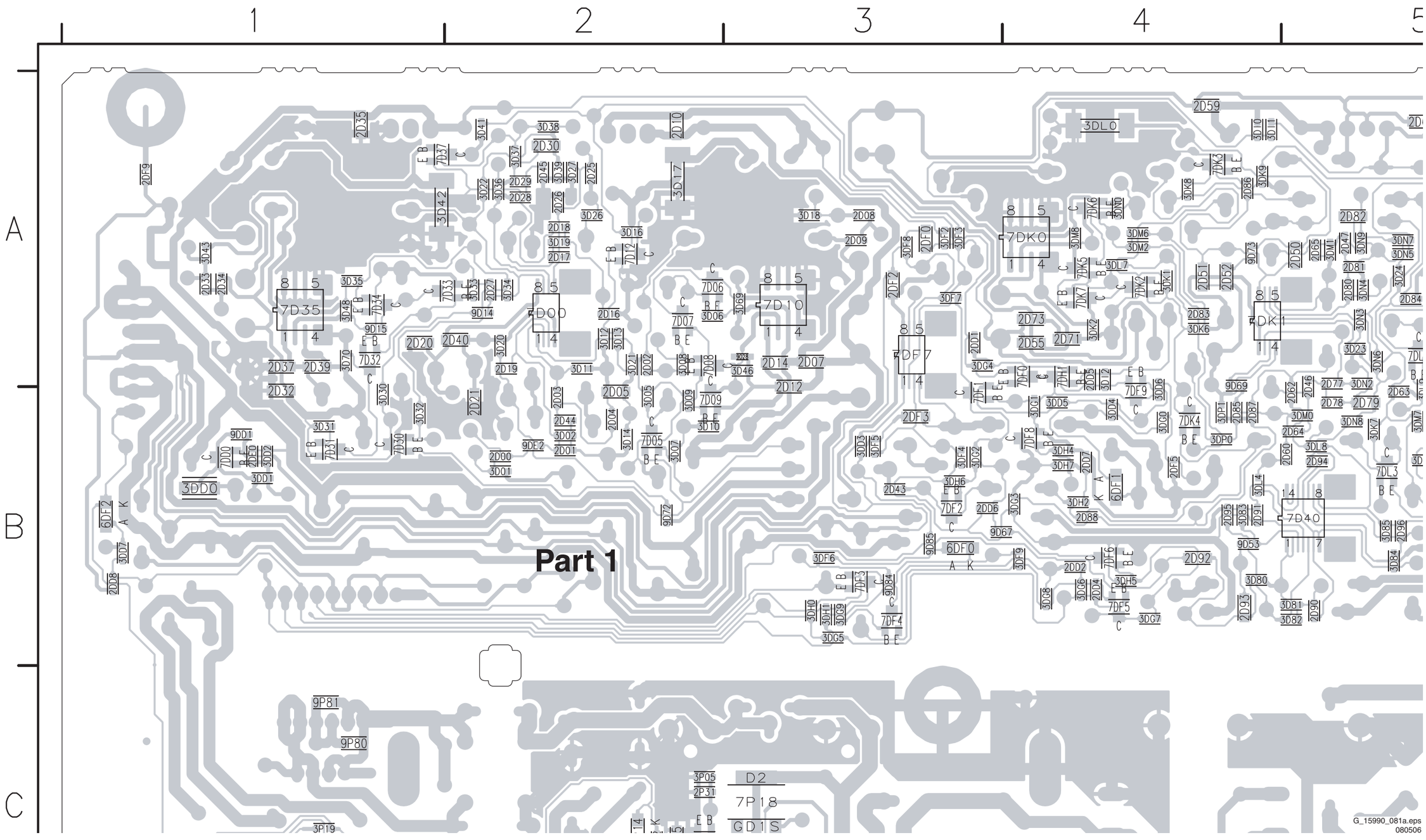
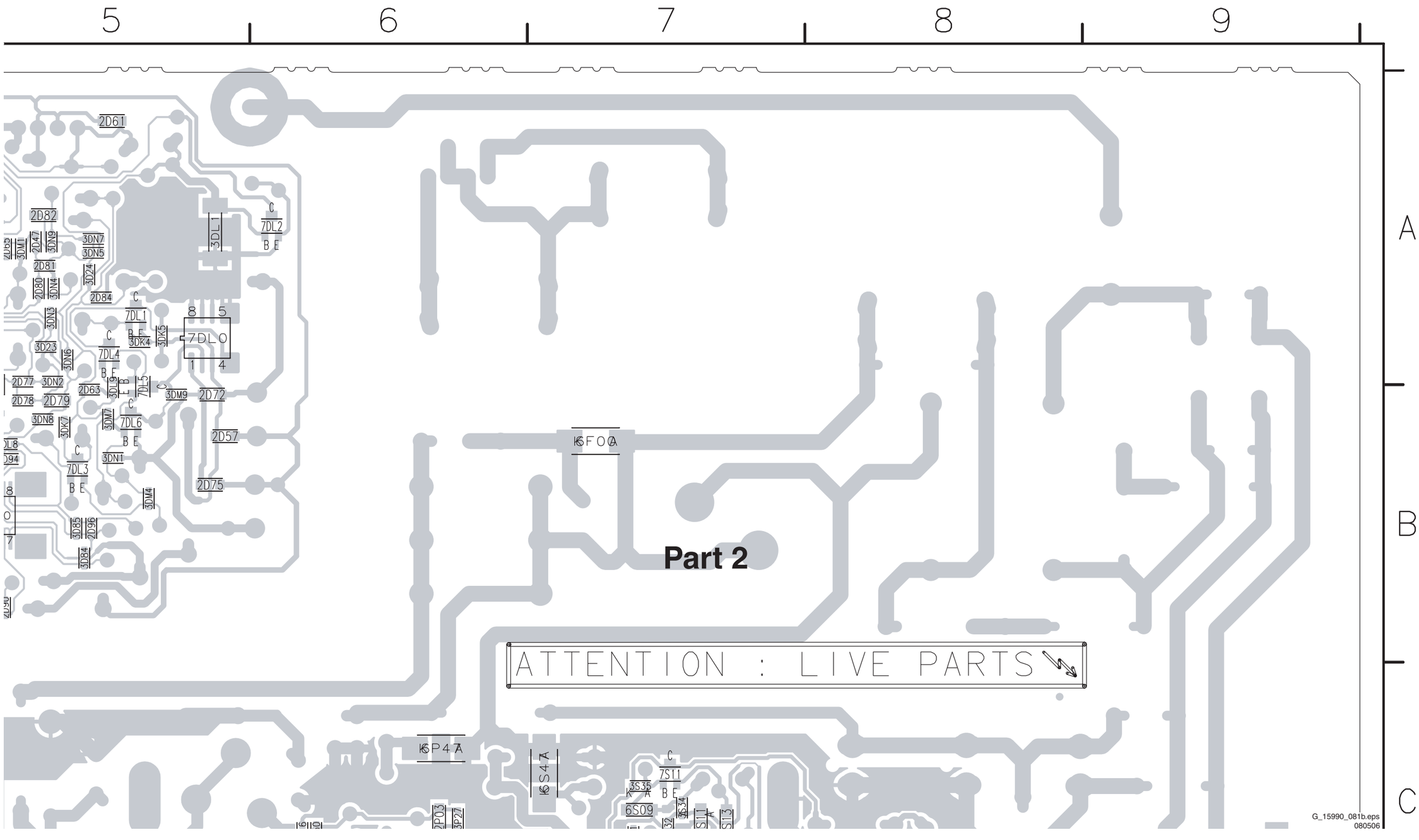
Layout Platform Supply 42” (Part 1 Bottom Side)



Layout Platform Supply 42” (Part 2 Bottom Side)



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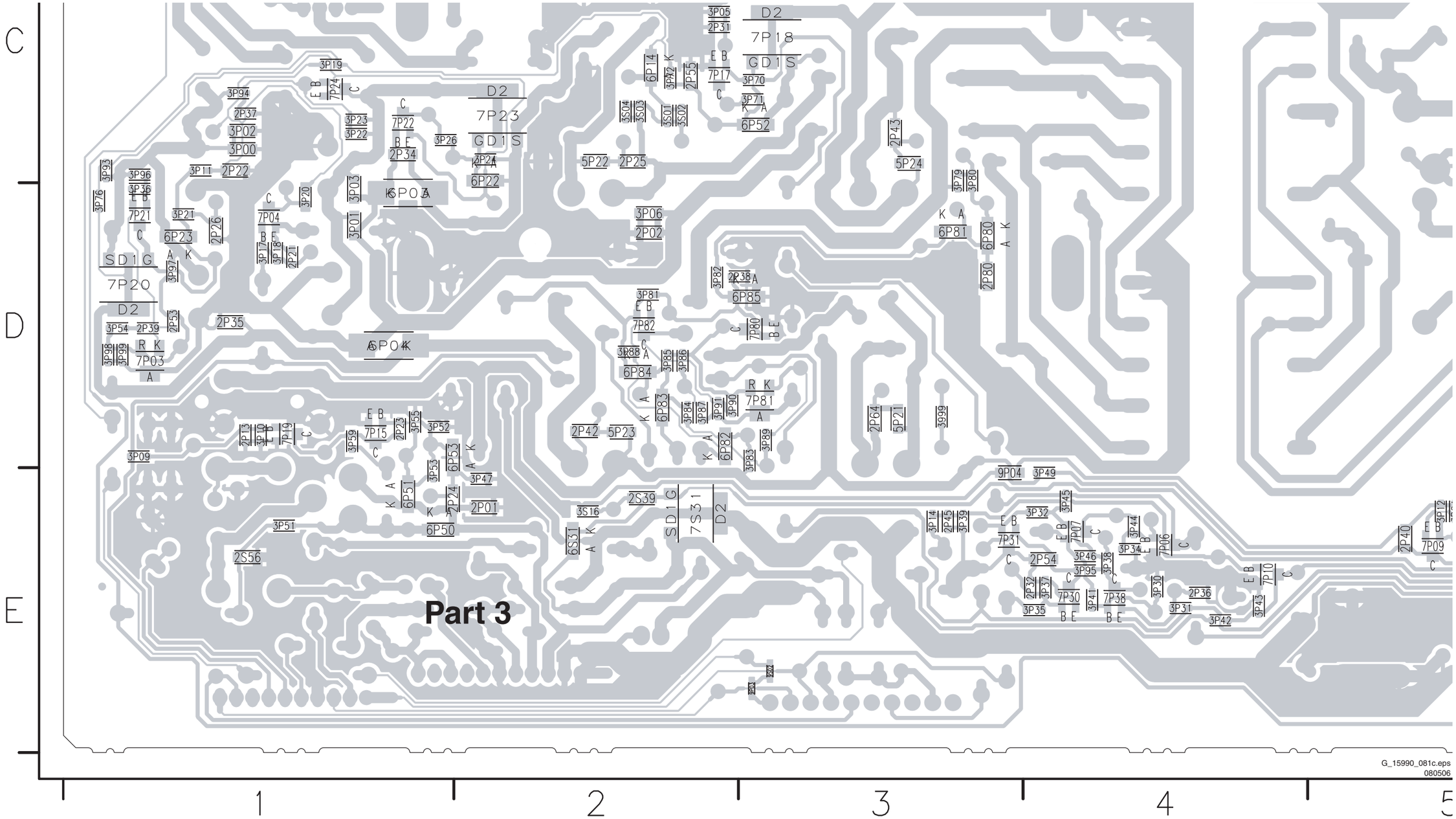
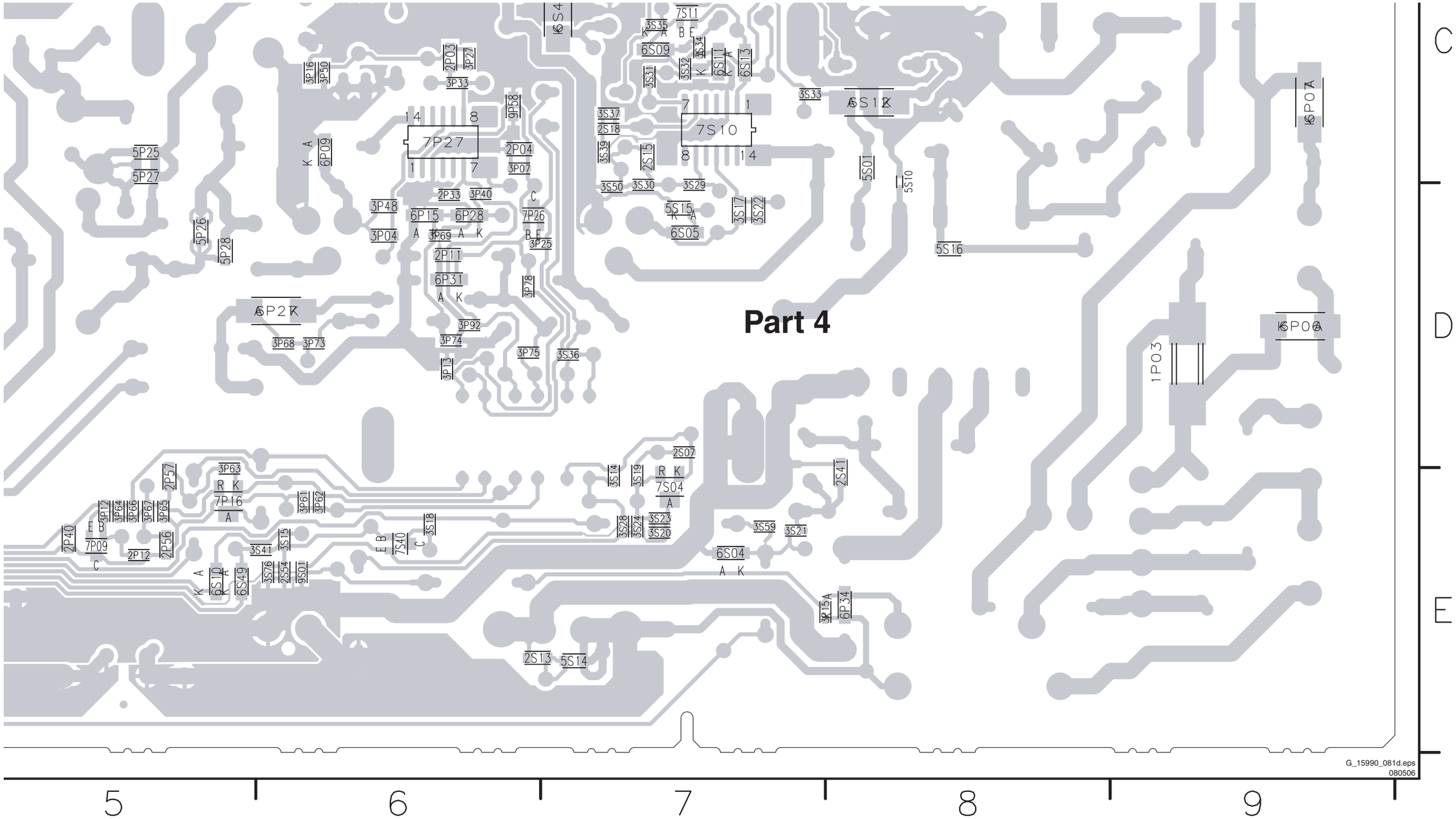


Layout Platform Supply 42” (Part 4 Bottom Side)



SSB: DC/DC Part 1

1U01 A12	2U0B C5	2U0Q C10	2U15 H7	2U1K D4	2U22 G2	3U02 E1	3U0G E8	3U0W B15	3U1C D13	3U1R F8	3U2C G4	3U34 H9	5U0B F9	6U0C H5	7U05 C6	7U21-2 H12	AU01 D1	FU14 C14	IU08 E3	IU0M C12	IU14 B14	IU1L E8	IU21 D8	IU2G H6	IU32 H9
1U04 A12	2U0C C5	2U0R C10	2U16 H8	2U1M B11	2U23 H8	3U03 B1	3U0H E8	3U0Z D4	3U1D B15	3U1S F8	3U2D G5	3U35 F2	5U0C F9	6U0D H5	7U06 C11	7U23 H6	AU02 D5	FU18 G14	IU09 D8	IU0N D14	IU18 A1	IU1M F8	IU22 D8	IU2H H6	IU34 F2
2H1H B14	2U0D E5	2U0S C12	2U17 A13	2U1N D5	2U24 E9	3U04 B1	3U0I E9	3U10 D4	3U1E B14	3U1T F15	3U2E G5	3U36 F5	5U0D D9	6U0E G6	7U08-1 D5	7U30 H8	AU03 D10	FU19 F14	IU0A D8	IU0P D14	IU19 A2	IU1N F8	IU23 C13	IU2I H5	IU35 F2
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2U02 E1	2U0G B7	2U0V E13	2U1A D14	2U1R D13	2U29 F5	3U07 E13	3U0L F14	3U13 D14	3U1H D10	3U22 F6	3U2H H10	5U02 B4	6U02 B12	6U13 H10	7U09-2 E15	9U02 F8	FU03 C15	FU23 A14	IU0D C5	IU0T F14	IU1C B1	IU1R D10	IU26 G7	IU2L E4	IU50 E7
2U03 C1	2U0H C8	2U0W B13	2U1B D9	2U1S E10	2U30 H1	3U08 E14	3U0M E10	3U14 D14	3U1I A1	3U23 F6	3U2J H10	5U03 B8	6U03 F9	6U18 B15	7U10-1 D1	9U03 F13	FU04 H7	IU00 C1	IU0E C7	IU0V B15	IU1D C5	IU1S B10	IU27 F7	IU2M G2	IU51 E7
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2U05 B2	2U0J E8	2U0Z E3	2U1D D14	2U1U A3	2U32 H2	3U0A D5	3U0P B10	3U16 B15	3U1K A3	3U25 D3	3U2L H11	5U05 E5	6U05 G9	7U01-2 E3	7U14 B14	9U07 C4	FU07 F14	IU02 C2	IU0G E8	IU0Y F9	IU1F C6	IU1U E13	IU29 D3	IU2P H10	
2U06 C4	2U0K B8	2U10 E8	2U1E D4	2U1W D4	2U33 H2	3U0B F14	3U0Q B12	3U17 C3	3U1L A3	3U26 D8	3U2M H11	5U06 F9	6U07 C2	7U02-1 D8	7U15 A15	9U08 C9	FU08 G14	IU03 C1	IU0H E6	IU0Z E9	IU1G D6	IU1V B15	IU2A D8	IU2R H12	
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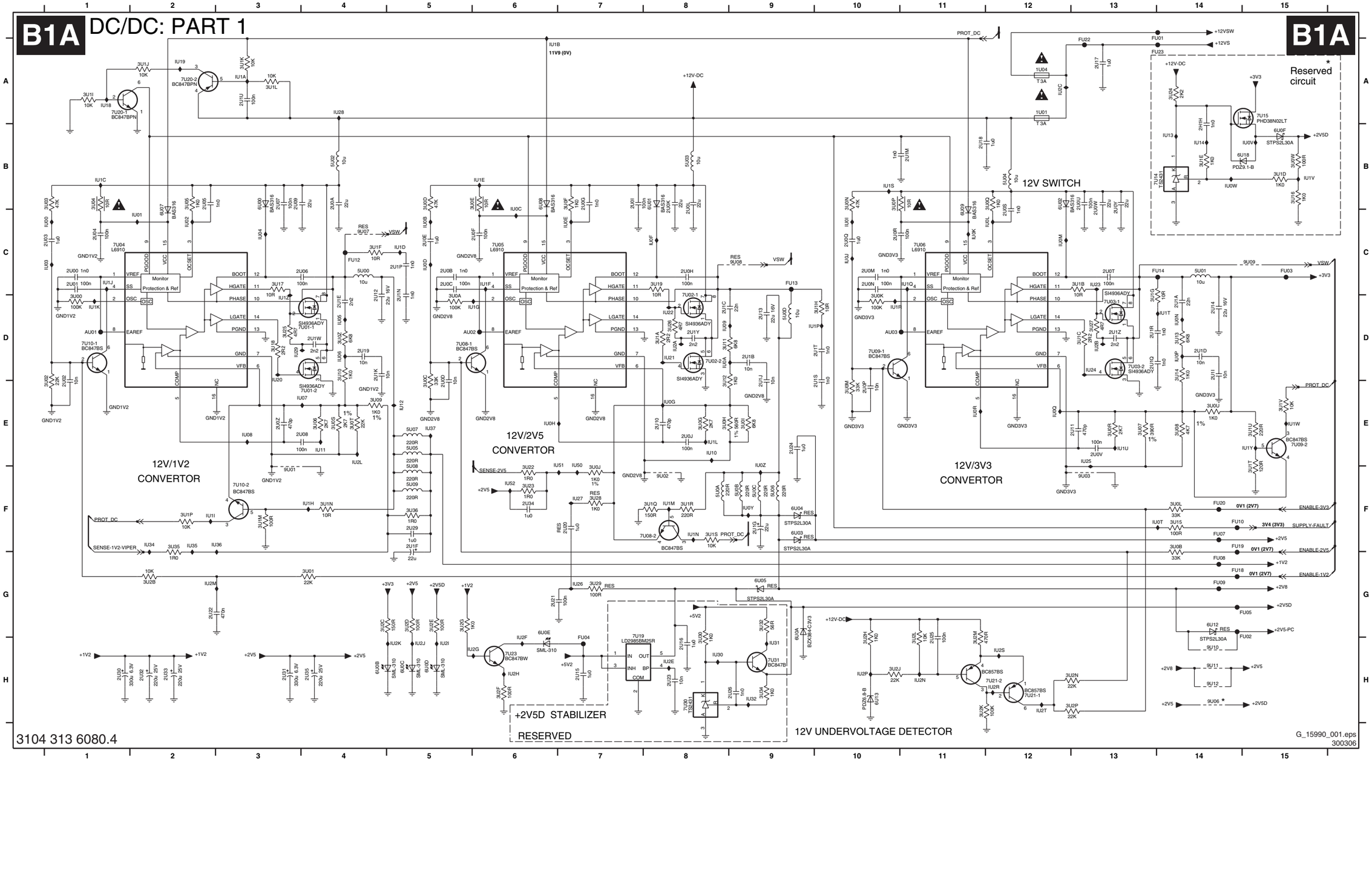
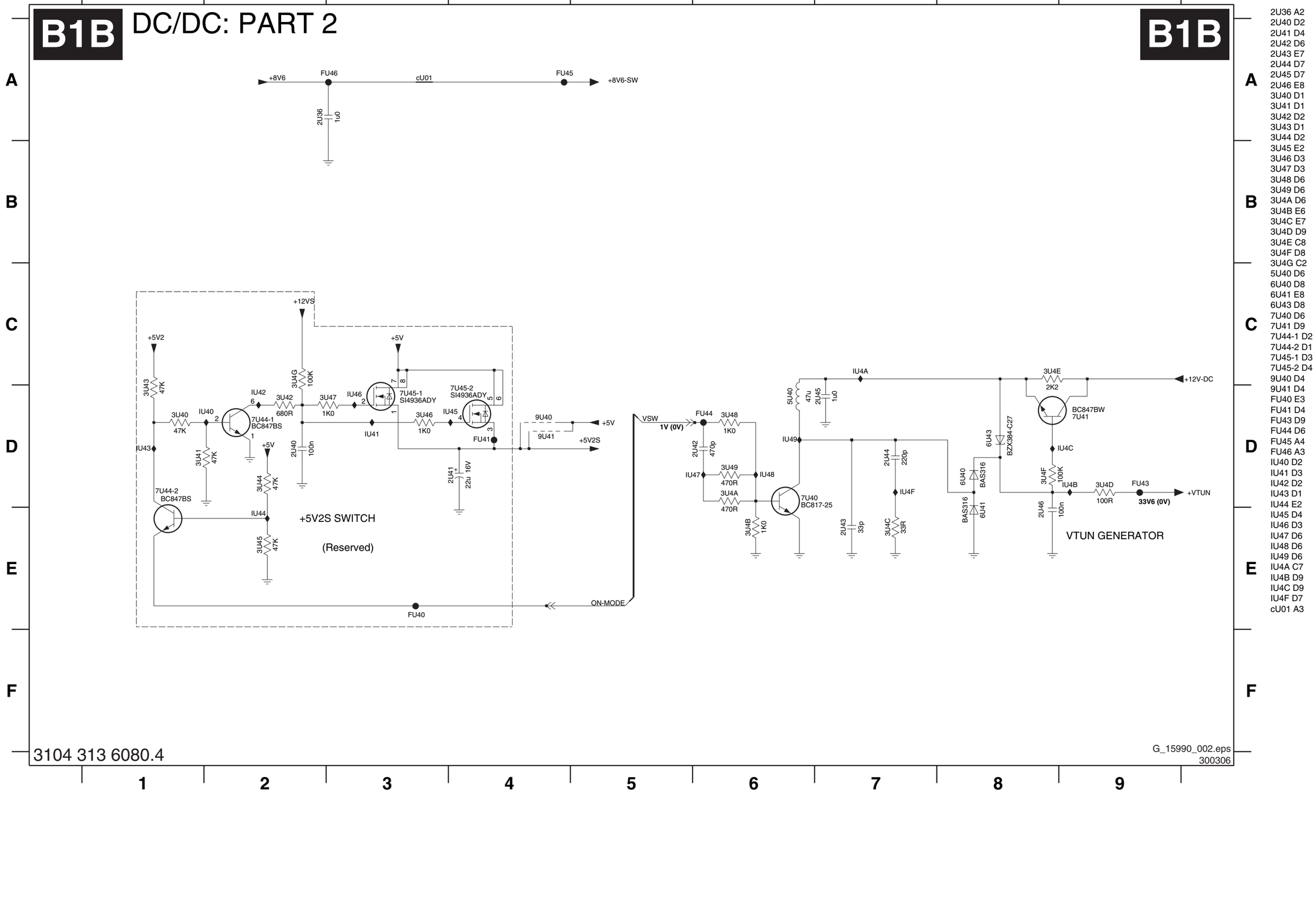
2U08 E4	2U0M C10	2U12 D4	2U1G F9	2U1Z D13	2U35 H4	3U0D B5	3U0S E4	3U19 C8	3U1N F4	3U28 F7	3U2P H13	5U08 F5	6U09 C11	7U03-1 D13	7U20-1 A1	9U10 H14	FU10 F14	IU05 D4	IU0J C10	IU11 E4	IU1I F2	IU1Y E15	IU2C A12	IU2T H12	
2U09 B3	2U0N C10	2U13 D9	2U1I D14	2U20 F7	3U00 D1	3U0E B6	3U0T E4	3U1A D8	3U1P F2	3U29 G7	3U30 H8	5U09 F5	6U0A G9	7U03-2 D13	7U20-2 A2	9U11 H14	FU12 C4	IU06 D4	IU0K C11	IU12 E5	IU1J C1	IU1Z D3	IU2E H8	IU30 H8	
2U0A B4	2U0P E10	2U14 D14	2U1J E9	2U21 G6	3U01 G4	3U0F B7	3U0U E14	3U1B C13	3U1Q F8	3U2B G2	3U32 G9	5U0A F8	6U0B H4	7U04 C1	7U21-1 H12	9U12 H14	FU13 C9	IU07 E4	IU0L C12	IU13 B14	IU1K D1	IU20 D3	IU2F G6	IU31 H9	



SSB: DC/DC Part 2

B1B DC/DC: PART 2



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2U43 E7
2U44 D7
2U45 D7
2U46 E8
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3U41 D1
3U42 D2
3U43 D1
3U44 D2
3U45 E2
3U46 D3
3U47 D3
3U48 D6
3U49 D6
3U4A D6
3U4B E6
3U4C E7
3U4D D9
3U4E C8
3U4F D8
3U4G C2
5U40 D6
6U40 D8
6U41 E8
6U43 D8
7U40 D6
7U41 D9
7U44-1 D2
7U44-2 D1
7U45-1 D3
7U45-2 D4
9U40 D4
9U41 D4
FU40 E3
FU41 D4
FU43 D9
FU44 D6
FU45 A4
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IU41 D3
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IU43 D1
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IU47 D6
IU48 D6
IU49 D6
IU4A C7
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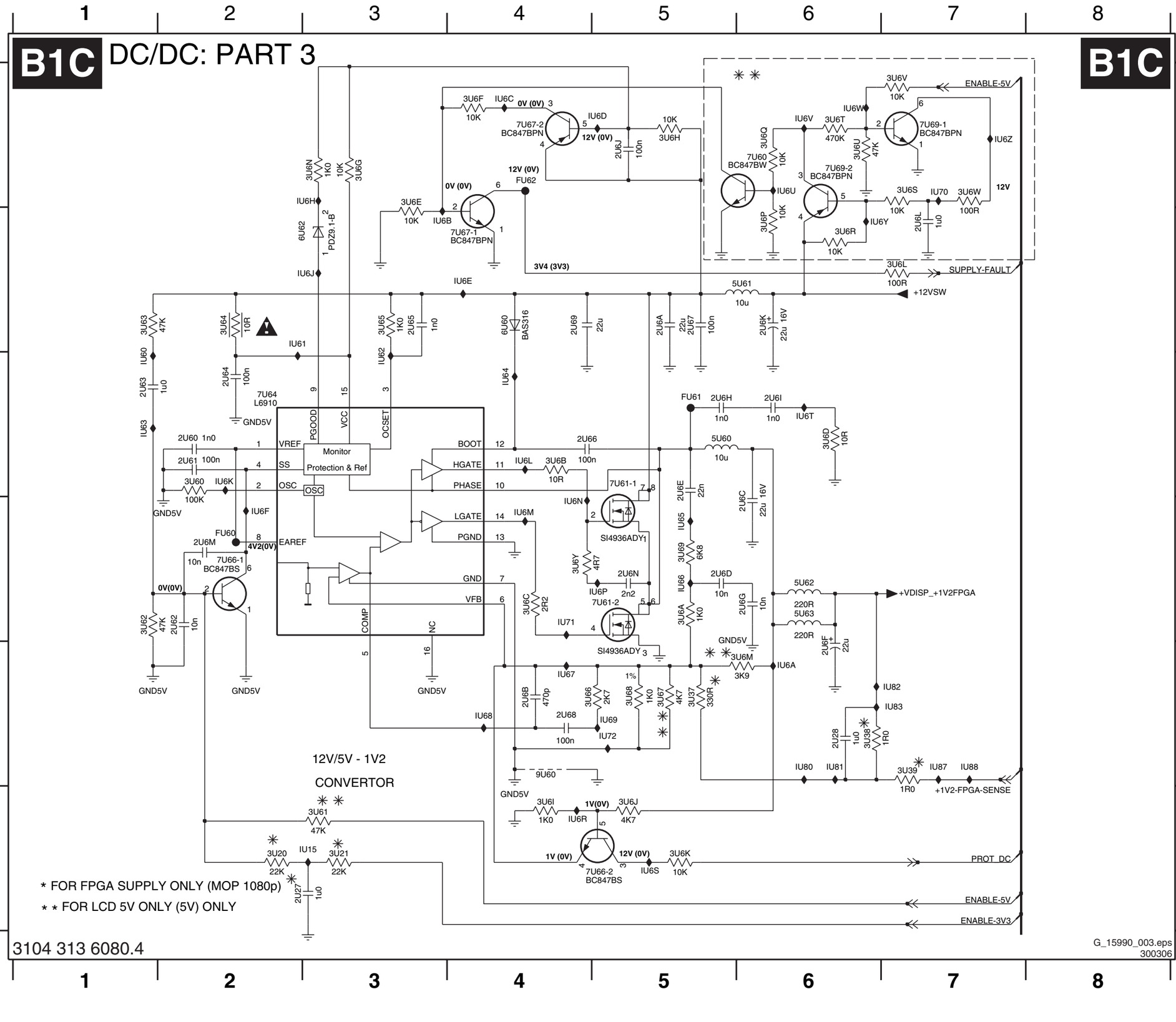
SSB: DC/DC Part 3

B1C DC/DC: PART 3

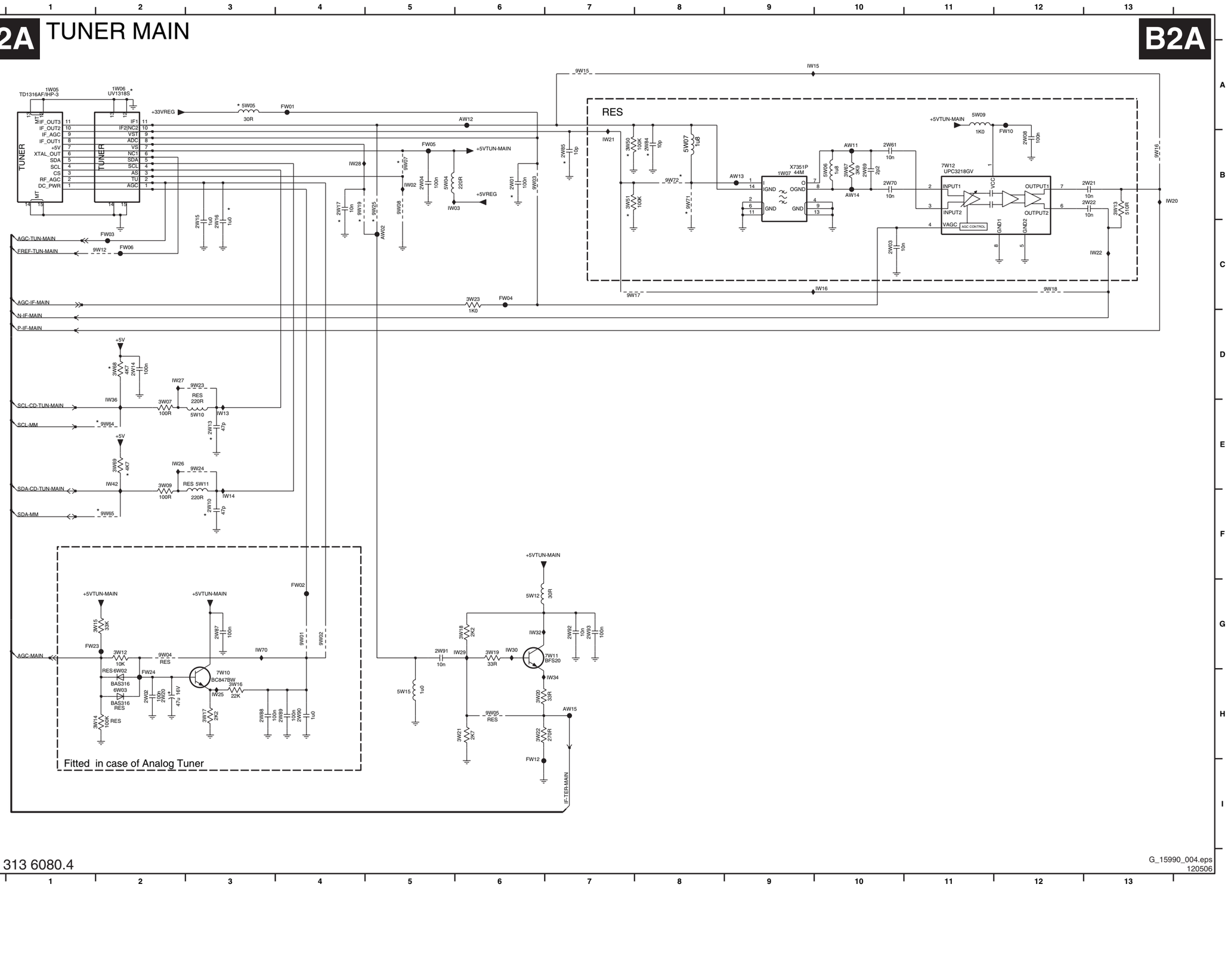


2U27	F2	7U67-2	A4
2U28	E6	7U69-1	A7
2U60	C2	7U69-2	A6
2U61	C2	9U60	E4
2U62	D2	FU60	D2
2U63	C1	FU61	C5
2U64	C2	FU62	A4
2U65	B3	IU15	F3
2U66	C4	IU60	C1
2U67	B5	IU61	B2
2U68	E4	IU62	C3
2U69	B4	IU63	C1
2U6A	B5	IU64	C4
2U6B	E4	IU65	D5
2U6C	D6	IU66	D5
2U6D	D5	IU67	E4
2U6E	C5	IU68	E4
2U6F	E6	IU69	E5
2U6G	D6	IU6A	E6
2U6H	C5	IU6B	B3
2U6I	C6	IU6C	A4
2U6J	A5	IU6D	A5
2U6K	B6	IU6E	B4
2U6L	B7	IU6F	D2
2U6M	D2	IU6H	A3
2U6N	D5	IU6J	B3
3U20	F2	IU6K	C2
3U21	F3	IU6L	C4
3U37	E5	IU6M	D4
3U38	E6	IU6N	D4
3U39	E7	IU6P	D5
3U60	C2	IU6R	F4
3U61	F3	IU6S	F5
3U62	D1	IU6T	C6
3U63	B1	IU6U	A6
3U64	B2	IU6V	A6
3U65	B3	IU6W	A6
3U66	E4	IU6Y	B6
3U67	E5	IU6Z	A7
3U68	E5	IU70	A7
3U69	D5	IU71	D4
3U6A	D5	IU72	E5
3U6B	C4	IU80	E6
3U6C	D4	IU81	E6
3U6D	C6	IU82	E7
3U6E	A3	IU83	E7
3U6F	A4	IU87	E7
3U6G	A3	IU88	E7
3U6H	A5		
3U6I	F4		
3U6J	F5		
3U6K	F5		
3U6L	B7		
3U6M	E6		
3U6N	A3		
3U6P	B6		
3U6Q	A6		
3U6R	B6		
3U6S	A7		
3U6T	A6		
3U6U	A6		
3U6V	A7		
3U6W	A7		
3U6Y	D4		
5U60	C5		
5U61	B6		
5U62	D6		
5U63	D6		
6U60	B4		
6U62	B2		
7U60	A6		
7U61-1	C5		
7U61-2	D5		
7U64	C2		
7U66-1	D2		
7U66-2	F4		
7U67-1	B4		

SSB: Tuner Main

B2A TUNER MAIN

B2A



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120506

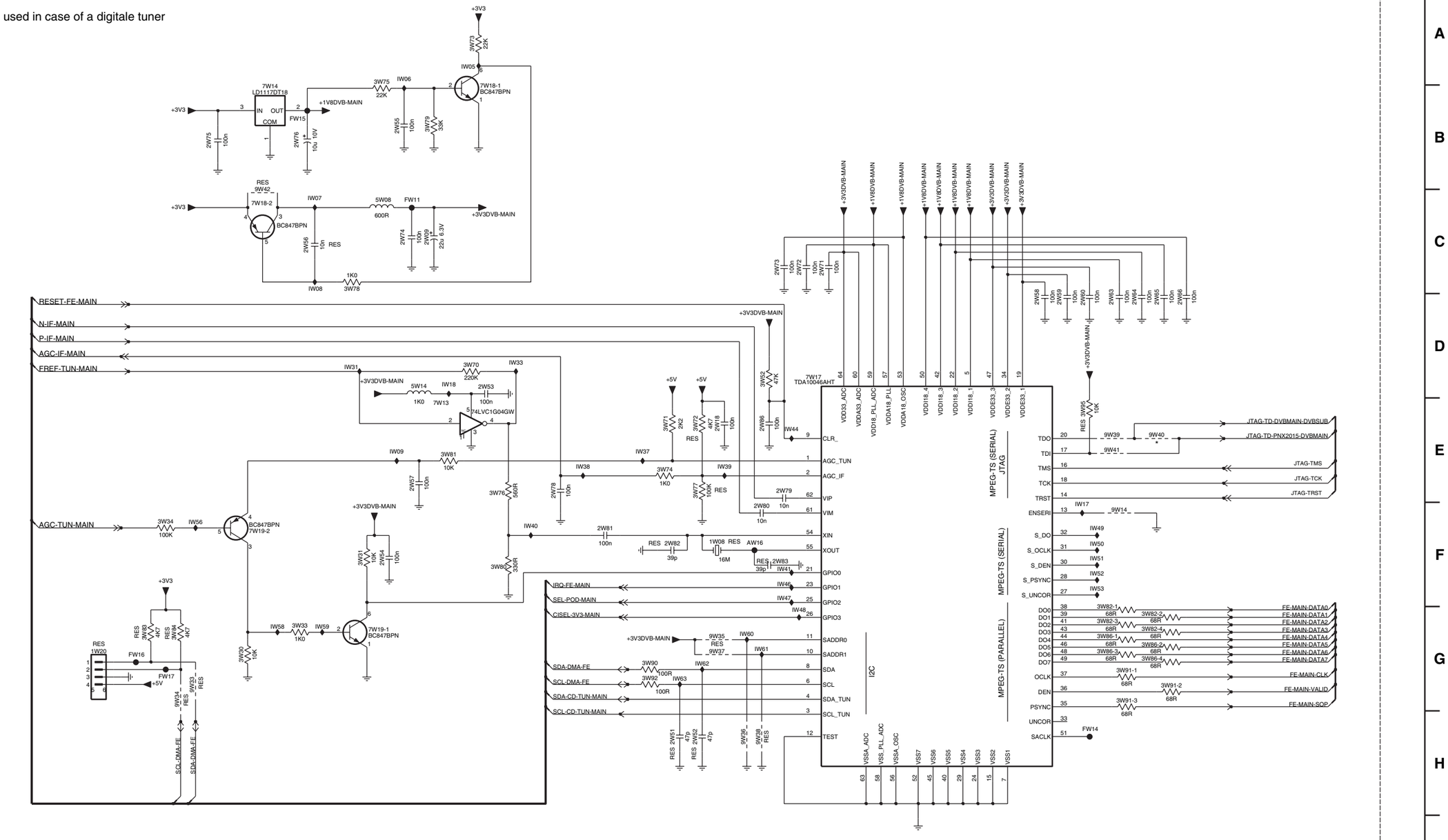
1W05	A1
1W06	A2
1W07	B9
2W01	B6
2W02	H2
2W03	C10
2W04	B5
2W08	B12
2W10	F3
2W13	E3
2W14	D2
2W15	C3
2W16	C3
2W17	B4
2W20	H2
2W21	B13
2W22	B13
2W61	B10
2W69	B10
2W70	B10
2W84	B8
2W85	B8
2W87	G3
2W88	H3
2W89	H4
2W90	H4
2W91	G5
2W92	G7
2W93	G7
3W07	E2
3W09	E2
3W12	G2
3W13	B13
3W14	H2
3W15	G2
3W16	H3
3W17	H3
3W18	G6
3W19	G6
3W20	H6
3W21	H6
3W22	H6
3W23	C6
3W50	B7
3W51	B7
3W67	B10
3W68	D2
3W69	E2
5W04	B5
5W05	A3
5W06	B10
5W07	B8
5W09	A11
5W10	E3
5W11	E3
5W12	G6
5W15	H5
6W02	H2
6W03	H2
7W10	H3
7W11	G7
7W12	B11
9W01	G4
9W02	G4
9W03	B6
9W04	G2
9W05	H6
9W07	B5
9W08	B5
9W12	C2
9W15	A7
9W16	B13
9W17	C7
9W18	C12
9W19	B4
9W23	D3
9W24	E3
9W25	B5
9W64	E2
9W65	F2
9W71	B8
9W72	B8
AW02	C5
AW11	B10
AW12	A6
AW13	B9
AW14	B10
AW15	H7
FW01	A4
FW02	G4

SSB: Tuner Main Channel Decoder

B2B TUNER MAIN: CHANNEL DECODER

B2B

used in case of a digitale tuner



3104 313 6080.4

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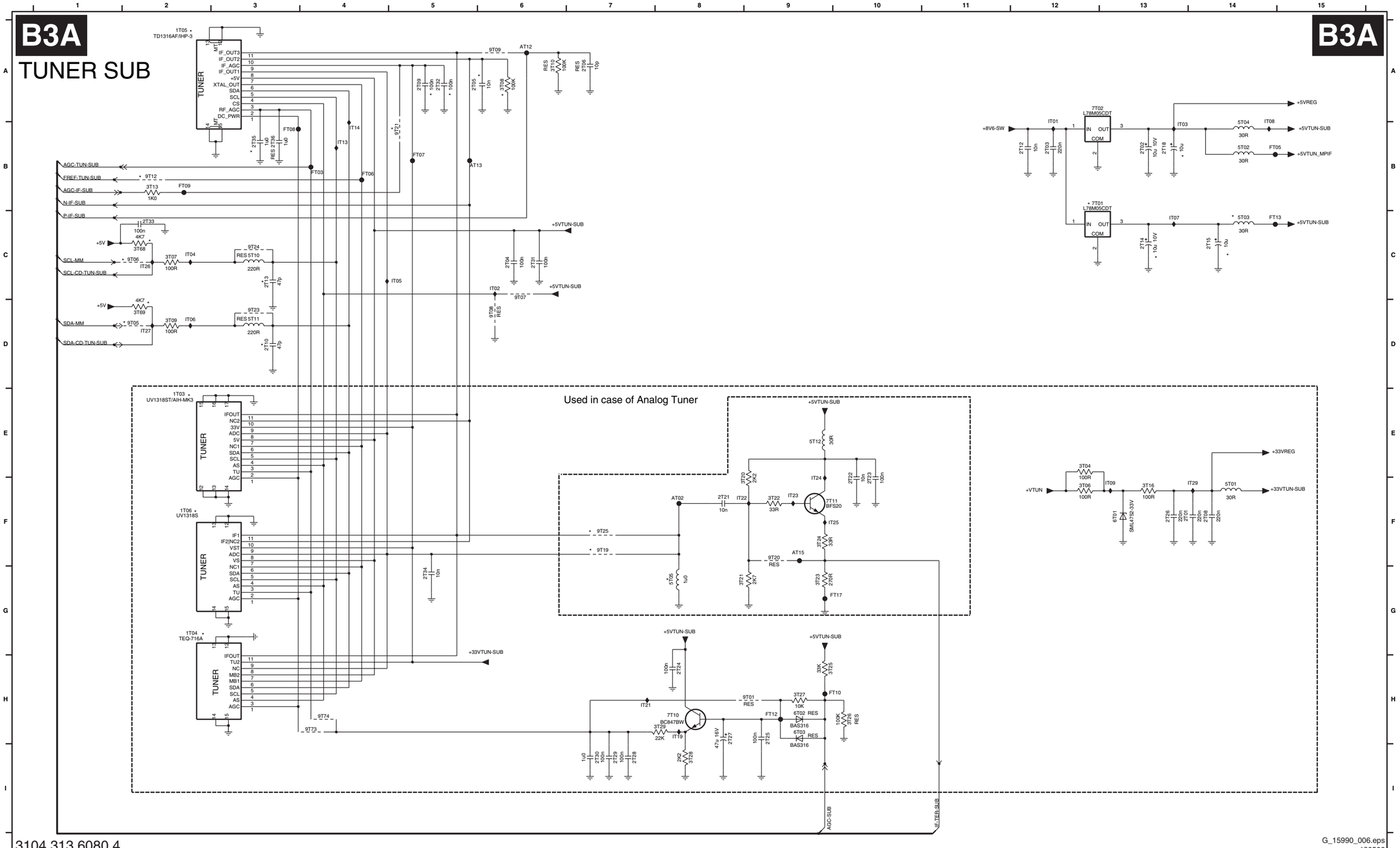
300306

1W08 F8
1W20 G2
2W09 C5
2W18 E8
2W51 H7
2W52 H8
2W53 D6
2W54 F5
2W55 B5
2W56 C4
2W57 E5
2W58 D11
2W59 D11
2W60 D11
2W63 D12
2W64 D12
2W65 D12
2W66 D12
2W71 C9
2W72 C9
2W73 C8
2W74 C5
2W75 B3
2W76 B4
2W78 E6
2W79 E8
2W80 F8
2W81 F7
2W82 F7
2W83 F8
2W86 E8
3W30 G3
3W31 F4
3W33 G4
3W34 F2
3W52 D8
3W70 D5
3W71 E7
3W72 E8
3W73 A5
3W74 E7
3W75 A5
3W76 E6
3W77 E8
3W78 C4
3W79 B5
3W80 F6
3W81 E5
3W82-1 G11
3W82-2 G12
3W82-3 G11
3W82-4 G12
3W83 G2
3W84 G3
3W86-1 G11
3W86-2 G12
3W86-3 G11
3W86-4 G12
3W90 G7
3W91-1 G12
3W91-2 G12
3W91-3 G12
3W92 G7
3W95 E11
5W08 C5
5W14 D5
7W13 E5
7W14 B3
7W17 D9
7W18-1 B5
7W18-2 C3
7W19-1 G4
7W19-2 F3
9W14 F12
9W33 G3
9W34 G3
9W35 G8
9W36 H8
9W37 G8
9W38 H8
9W39 E12
9W40 E12
9W41 E12
9W42 C3
AW16 F8
FW11 C5
FW14 H11
FW15 B4
FW16 G2
FW17 G2
IW05 A5
IW06 A5
IW07 C4
IW08 C4
IW09 E5
IW17 F11
IW18 D5
IW31 D4
IW33 D6
IW37 E7
IW38 E6
IW39 E8
IW40 F6
IW41 F8
IW44 E8
IW46 F8
IW47 F8

SSB: Tuner Sub

1T03 E2	2T01 F13	2T05 A5	2T10 D3	2T15 C14	2T23 F10	2T27 H8	2T31 C6	2T35 B3	3T07 C2	3T13 B2	3T22 F9	3T26 H10	3T68 C2	5T03 C14	5T11 D3	6T03 H9	7T11 F9	9T07 C6	9T19 F7	9T24 C3	AT02 F8	FT03 B4	FT08 B3	FT13 C14	IT03 B13	IT07 C13	IT14 B4	IT23 F9	2T27 D2
1T04 G2	2T02 B13	2T06 A7	2T12 B12	2T18 B13	2T24 H8	2T28 I7	2T32 A5	2T36 B3	3T08 A6	3T16 F13	3T23 G9	3T27 H9	3T69 D2	5T04 B14	5T12 E9	7T01 B12	9T01 H9	9T08 D6	9T20 F9	9T25 F7	AT12 A6	FT05 B14	FT09 B2	FT17 G10	IT04 C2	IT08 A14	IT19 H8	IT24 F9	2T29 F14
1T05 A2	2T03 B12	2T08 F14	2T13 C3	2T21 F8	2T25 H9	2T29 I7	2T33 C2	3T04 E12	3T09 D2	3T20 F9	3T24 F9	3T28 I8	5T01 F14	5T05 G8	6T01 F13	7T02 A12	9T05 D2	9T09 A6	9T21 B5	9T73 H4	AT13 B5	FT06 B4	FT10 H10	IT01 A12	IT05 C5	IT09 F13	IT21 H7	IT25 F10	
1T06 F2	2T04 C6	2T09 A5	2T14 C13	2T22 F10	2T26 F13	2T30 I7	2T34 G5	3T06 F12	3T10 A6	3T21 G8	3T25 H9	3T29 H8	5T02 B14	5T10 C3	6T02 H9	7T10 H8	9T06 C2	9T12 B2	9T23 D3	9T74 H4	AT15 F9	FT07 B5	FT12 H9	IT02 C6	IT06 D2	IT13 B4	IT22 F8	IT26 C2		



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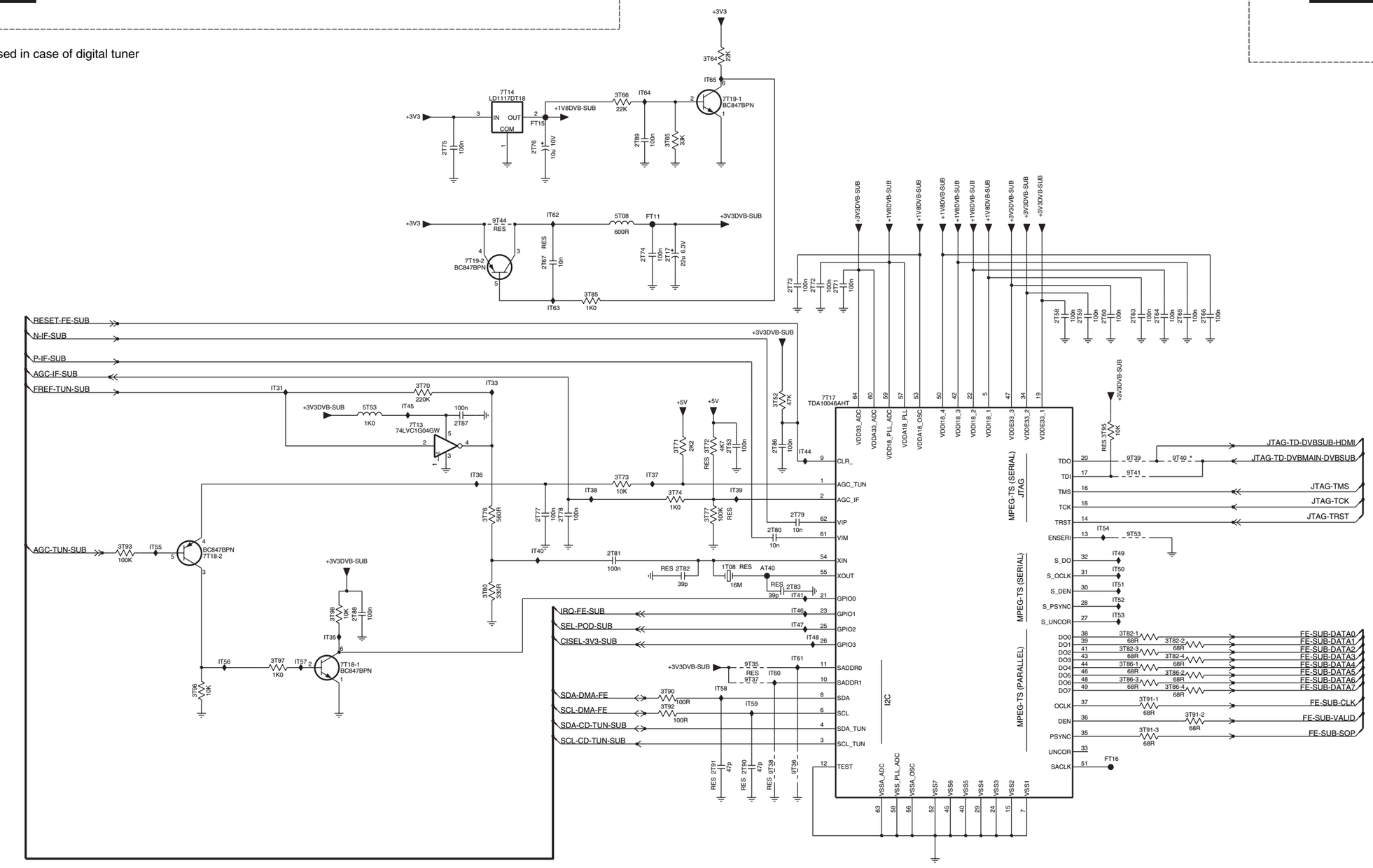
SSB: Tuner Sub Channel Decoder

B3B TUNER SUB: CHANNEL DECODER

Used in case of digital tuner



3104 313 6080.4

G_15990_007.eps
120406

1T08 F8 IT61 G8
2T17 C7 IT62 C6
2T53 E8 IT63 D6
2T58 D11 IT64 B7
2T59 D11 IT65 B7
2T60 D11
2T63 D11
2T64 D12
2T65 D12
2T66 D12
2T67 C6
2T71 D9
2T72 D8
2T73 D8
2T74 C7
2T75 B5
2T76 B6
2T77 F6
2T78 F6
2T79 F8
2T80 F8
2T81 F6
2T82 F7
2T83 F8
2T86 E8
2T87 E5
2T88 G4
2T89 B7
2T90 H8
2T91 H7
3T52 E8
3T64 A7
3T65 B7
3T66 B7
3T70 E5
3T71 E7
3T72 E7
3T73 E7
3T74 F7
3T76 F5
3T77 F7
3T80 F5
3T82-1 G11
3T82-2 G12
3T82-3 G11
3T82-4 G12
3T85 D6
3T86-1 G11
3T86-2 G12
3T86-3 G11
3T86-4 G12
3T90 G7
3T91-1 G11
3T91-2 H12
3T91-3 H11
3T92 H7
3T93 F2
3T95 E11
3T96 G3
3T97 G3
3T98 G4
5T08 C7
5T53 E4
7T13 E5
7T14 B5
7T17 E9
7T18-1 G4
7T18-2 F3
7T19-1 B7
7T19-2 C5
9T35 G8
9T36 H8
9T37 G8
9T38 H8
9T39 E11
9T40 E12
9T41 E11
9T44 C5
9T53 F11
AT40 F8
FT11 C7
FT15 B6
FT16 H11
IT31 E3
IT33 D5
IT35 G4
IT36 E5
IT37 E7
IT38 E6
IT39 E8
IT40 F6
IT41 F8
IT44 E8
IT45 E5
IT46 G8
IT47 G8
IT48 G8
IT49 F11
IT50 F11
IT51 F11
IT52 F11
IT53 G11
IT54 F11
IT55 F2
IT56 G3
IT57 G4
IT58 G7
IT59 G8
IT60 G8

SSB: MPIF Main: Video Source Select

1A00 F11 2C01 B4 2C02 C4 2C03 B2 2C06 C2 2C07 C3 2C08 C2 2C09 D3 2C10 C2 2C11 D3 2C12 D5 2C13 E6 2C14 E3 2C15 E3 2C16 E3 2C17 E3 2C18 F2 2C19 F3 2C20 F2 2C21 F5 2C22 F7 2C23 E9 2C25 G6 2C27 F5 2C28 G6 5C01 F4 5C03 G6 7C00-4 B8 FC02 B5 FC03 F5 FC04 E11 FC06 G6 IC04 F7 IC05 E9 IC06 B4 IC08 D5 IC09 D6 IC12 B3 IC33 G5

B4A MPIF MAIN : VIDEO SOURCE SELECT

SOURCE SELECTION

+ AD CONVERTER

7C00-4 PNX3000HL/N2

SOURCE SELECT AND DATA LINK

CVBSOUTIF-MAIN, AV1_CVBS, AV2_Y-CVBS, AV2_C, FRONT_Y-CVBS, FRONT_C, AV7_Y-CVBS, AV7_C, AV1-AV5-AV6_R-PR-D, AV1-AV5-AV6_G-Y-D, AV1-AV5-AV6_B-PB-D, AV2-AV4_R-PR-D, AV2-AV4_G-Y-D, AV2-AV4_B-PB-D

CVBS_IF, CVBS1, CVBS2, CVBS_DTV, CVBS|Y3, C3, CVBS|Y4, C4, Y_COMB, C_COMB, GND_VSW, R|PR|V_1, G|Y|Y_1, B|PB|U_1, R|PR|V_2, G|Y|Y_2, B|PB|U_2, VCC_DIG, GND_DIG, VD2V5, FUSE10, VCC_I2D, GND_I2D

CVBS_OUTA, CVBS_OUTB, STROBE1N, STROBE1P, DATA1N, DATA1P, STROBE3N, STROBE3P, DATA3N, DATA3P, STROBE2N, STROBE2P, DATA2N, DATA2P, HV_PRIM, HV_SEC

STROBE1N-MAIN, STROBE1P-MAIN, DATA1N-MAIN, DATA1P-MAIN, STROBE3N-MAIN, STROBE3P-MAIN, DATA3N-MAIN, DATA3P-MAIN, STROBE2N-MAIN, STROBE2P-MAIN, DATA2N-MAIN, DATA2P-MAIN, HV-PRM-MAIN

+5VMPIF-MAIN, GND-D, GND

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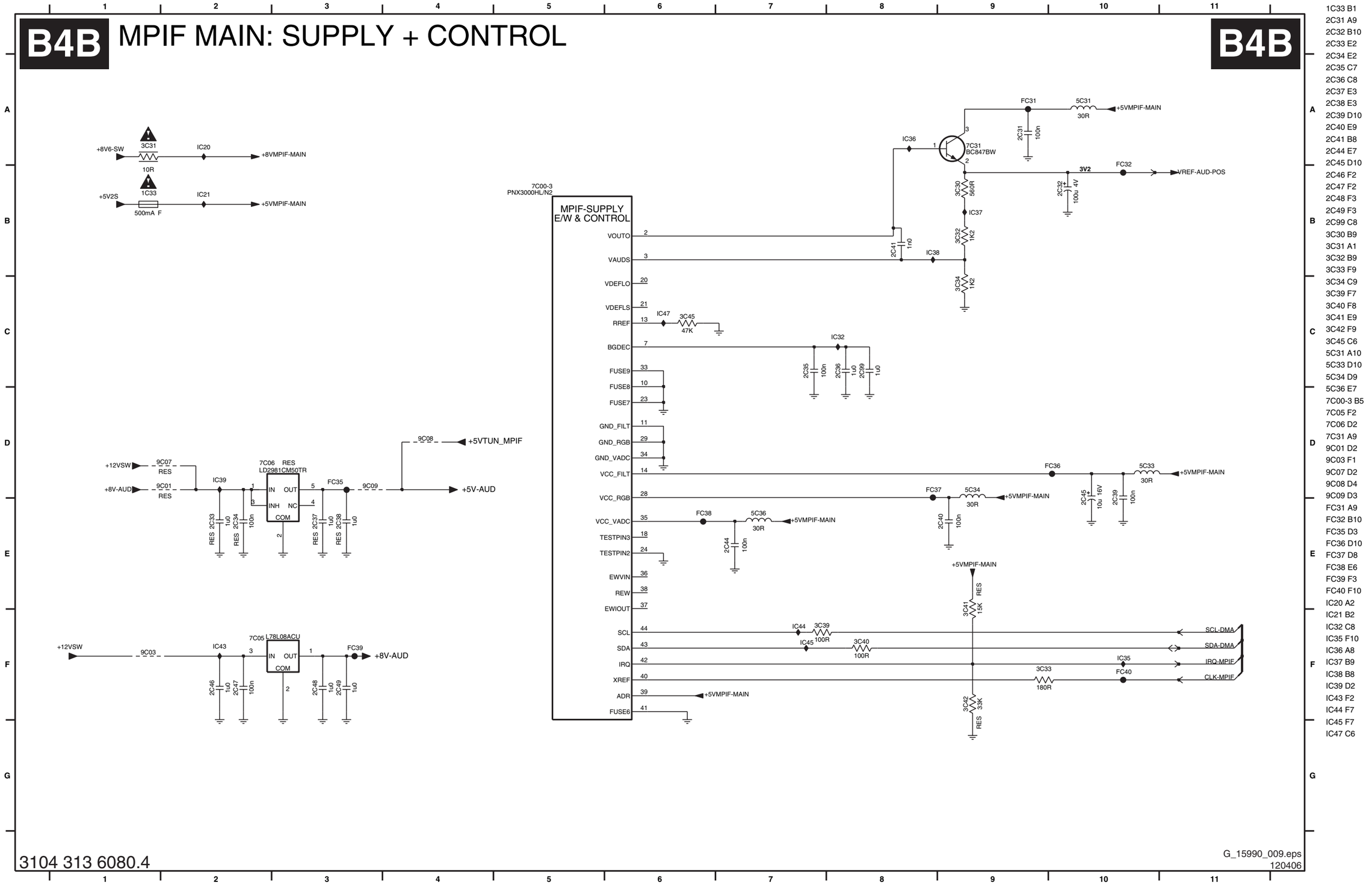
SSB: MPIF Main: Supply & Control

B4B MPIF MAIN: SUPPLY + CONTROL



1C33 B1
2C31 A9
2C32 B10
2C33 E2
2C34 E2
2C35 C7
2C36 C8
2C37 E3
2C38 E3
2C39 D10
2C40 E9
2C41 B8
2C44 E7
2C45 D10
2C46 F2
2C47 F2
2C48 F3
2C49 F3
2C99 C8
3C30 B9
3C31 A1
3C32 B9
3C33 F9
3C34 C9
3C39 F7
3C40 F8
3C41 E9
3C42 F9
3C45 C6
5C31 A10
5C33 D10
5C34 D9
5C36 E7
7C00-3 B5
7C05 F2
7C06 D2
7C31 A9
9C01 D2
9C03 F1
9C07 D2
9C08 D4
9C09 D3
FC31 A9
FC32 B10
FC35 D3
FC36 D10
FC37 D8
FC38 E6
FC39 F3
FC40 F10
IC20 A2
IC21 B2
IC32 C8
IC35 F10
IC36 A8
IC37 B9
IC38 B8
IC39 D2
IC43 F2
IC44 F7
IC45 F7
IC47 C6

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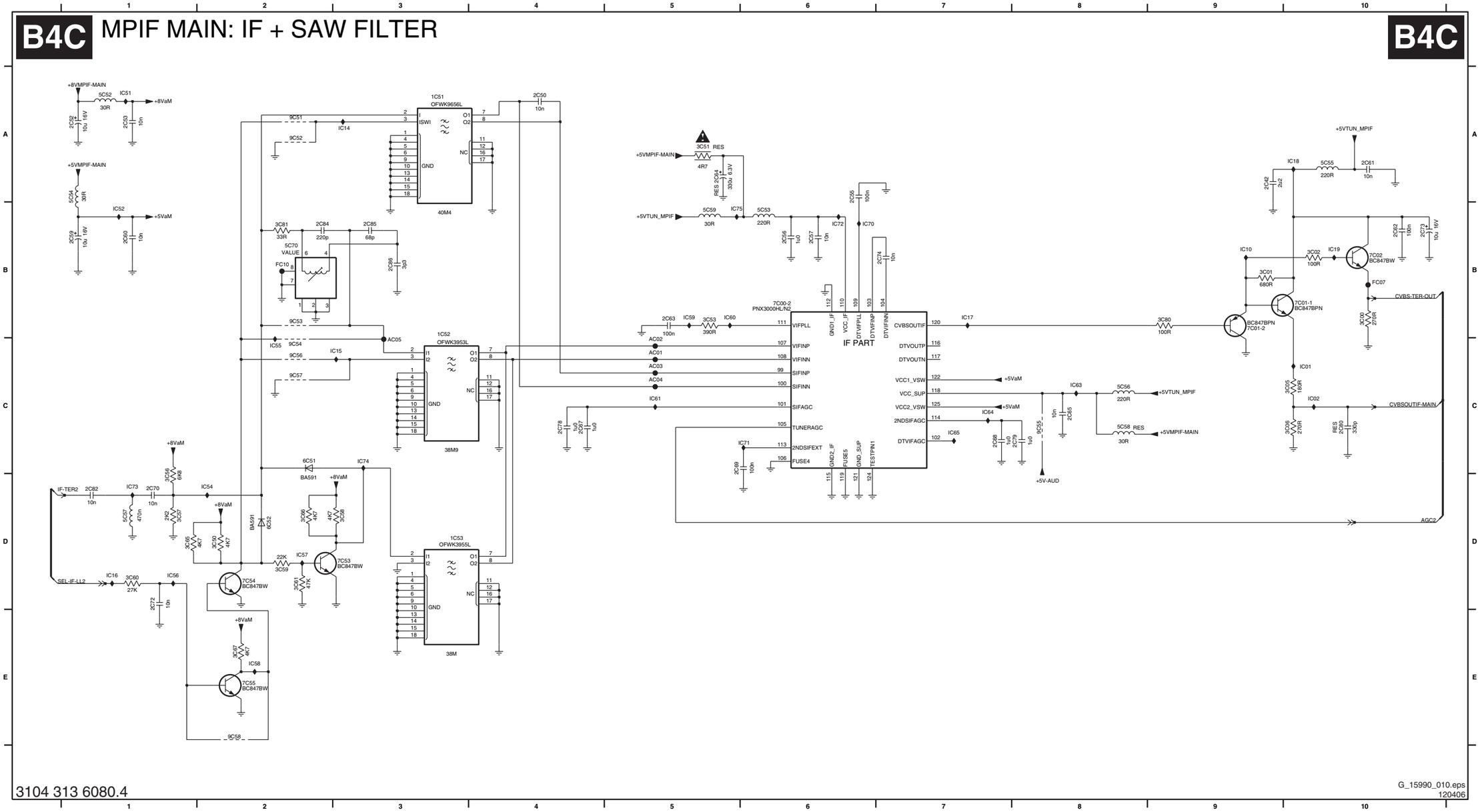
120406

SSB: MPIF Main: IF & SAW Filter

1C51 A3	2C50 A4	2C56 B6	2C61 A10	2C65 C8	2C70 D1	2C78 C4	2C84 B2	3C01 B9	3C50 D2	3C57 D1	3C61 D2	3C80 B9	5C54 A1	5C58 C8	6C52 D2	7C02 B10	9C51 A2	9C55 C8	AC01 C5	AC05 C3	IC02 C10	IC16 D1	IC51 A1	IC56 D1	IC60 B5	IC65 C7	IC73 D1
1C52 B3	2C52 A1	2C57 B6	2C62 B10	2C67 C4	2C72 D1	2C79 C8	2C85 B3	3C02 B10	3C51 A5	3C58 D3	3C65 D1	3C81 B2	5C55 A10	5C59 B5	7C00-2 B6	7C53 D3	9C52 A2	9C56 C2	AC02 C5	FC07 B10	IC10 B9	IC17 B7	IC52 B1	IC57 D2	IC61 C5	IC70 B6	IC74 C3
1C53 D3	2C53 A1	2C59 B1	2C63 B5	2C68 C7	2C73 B10	2C80 C10	2C86 B3	3C05 C10	3C53 B5	3C59 D2	3C66 D2	5C52 A1	5C56 C8	5C70 B2	7C01-1 B10	7C54 D2	9C53 B2	9C57 C2	AC03 C5	FC10 B2	IC14 A3	IC18 A10	IC54 D2	IC58 E2	IC63 C8	IC71 C6	IC75 B5
2C42 A9	2C55 A6	2C60 B1	2C64 A5	2C69 C5	2C74 B7	2C82 D1	3C00 B10	3C06 C10	3C56 D1	3C60 D1	3C67 E2	5C53 B6	5C57 D1	6C51 C2	7C01-2 B9	7C55 E2	9C54 C2	9C58 E2	AC04 C5	IC01 C10	IC15 C3	IC19 B10	IC55 C2	IC59 B5	IC64 C7	IC72 B6		



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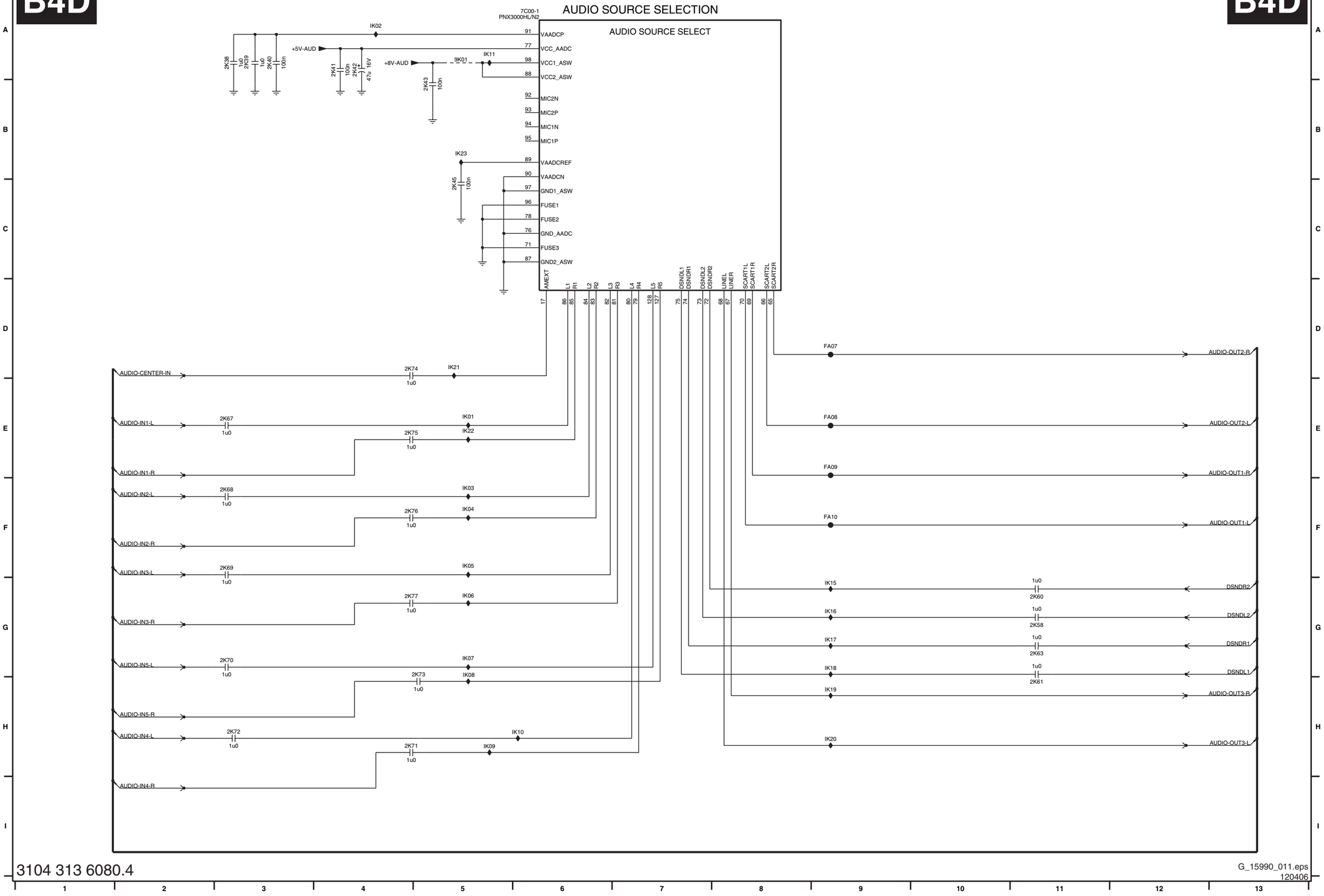
120406

SSB: MPIF Main: Audio Source Selection

B4D MPIF MAIN: AUDIO SOURCE SELECTION

B4D



SSB: MPIF Sub: Video Source Selection

B4E MPIF SUB: VIDEO SOURCE SELECTION

B4E

VIDEO SOURCE SELECTION

7A00-4
PNX3000HL/N2

SOURCE SELECT AND DATA LINK

CVBSOUTIF-SUB, AV1_CVBS, AV2_Y-CVBS, AV2_C, FRONT_Y-CVBS, FRONT_C, AV7_Y-CVBS, AV7_C, AV1-AV5-AV6_R-PR, AV1-AV5-AV6_G-Y, AV1-AV5-AV6_B-PB, AV1-AV5-AV6_R-PR-D, AV1-AV5-AV6_G-Y-D, AV1-AV5-AV6_B-PB-D, AV2-AV4_R-PR, AV2-AV4_G-Y, AV2-AV4_B-PB, AV2-AV4_R-PR-D, AV2-AV4_G-Y-D, AV2-AV4_B-PB-D

CVBS_IF, CVBS1, CVBS2, CVBS_DTV, CVBS|Y3, C3, CVBS|Y4, C4, Y_COMB, C_COMB, GND_VSW, R|PR|V_1, G|Y|Y_1, B|PB|U_1, R|PR|V_2, G|Y|Y_2, B|PB|U_2, VCC_DIG, GND_DIG, VD2V5, FUSE10, VCC_I2D, GND_I2D

CVBS_OUTA, CVBS_OUTB, STROBE1N, STROBE1P, DATA1N, DATA1P, STROBE3N, STROBE3P, DATA3N, DATA3P, STROBE2N, STROBE2P, DATA2N, DATA2P, HV_PRIM, HV_SEC

STROBE1N-SUB, STROBE1P-SUB, DATA1N-SUB, DATA1P-SUB, STROBE3N-SUB, STROBE3P-SUB, DATA3N-SUB, DATA3P-SUB, STROBE2N-SUB, STROBE2P-SUB, DATA2N-SUB, DATA2P-SUB, HV-PRM-SUB

AV2-AV4_B-PB, AV2-AV4_G-Y, AV2-AV4_R-PR, AV1-AV5-AV6_R-PR-D, AV1-AV5-AV6_G-Y-D, AV1-AV5-AV6_B-PB-D

AV2-AV4_B-PB-A, AV2-AV4_G-Y-A, AV2-AV4_R-PR-A, AV1-AV5-AV6_R-PR-A, AV1-AV5-AV6_G-Y-A, AV1-AV5-AV6_B-PB-A

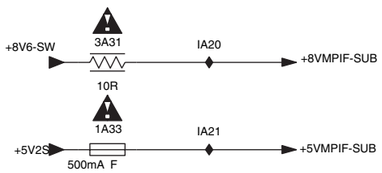
+5VMPIF-SUB

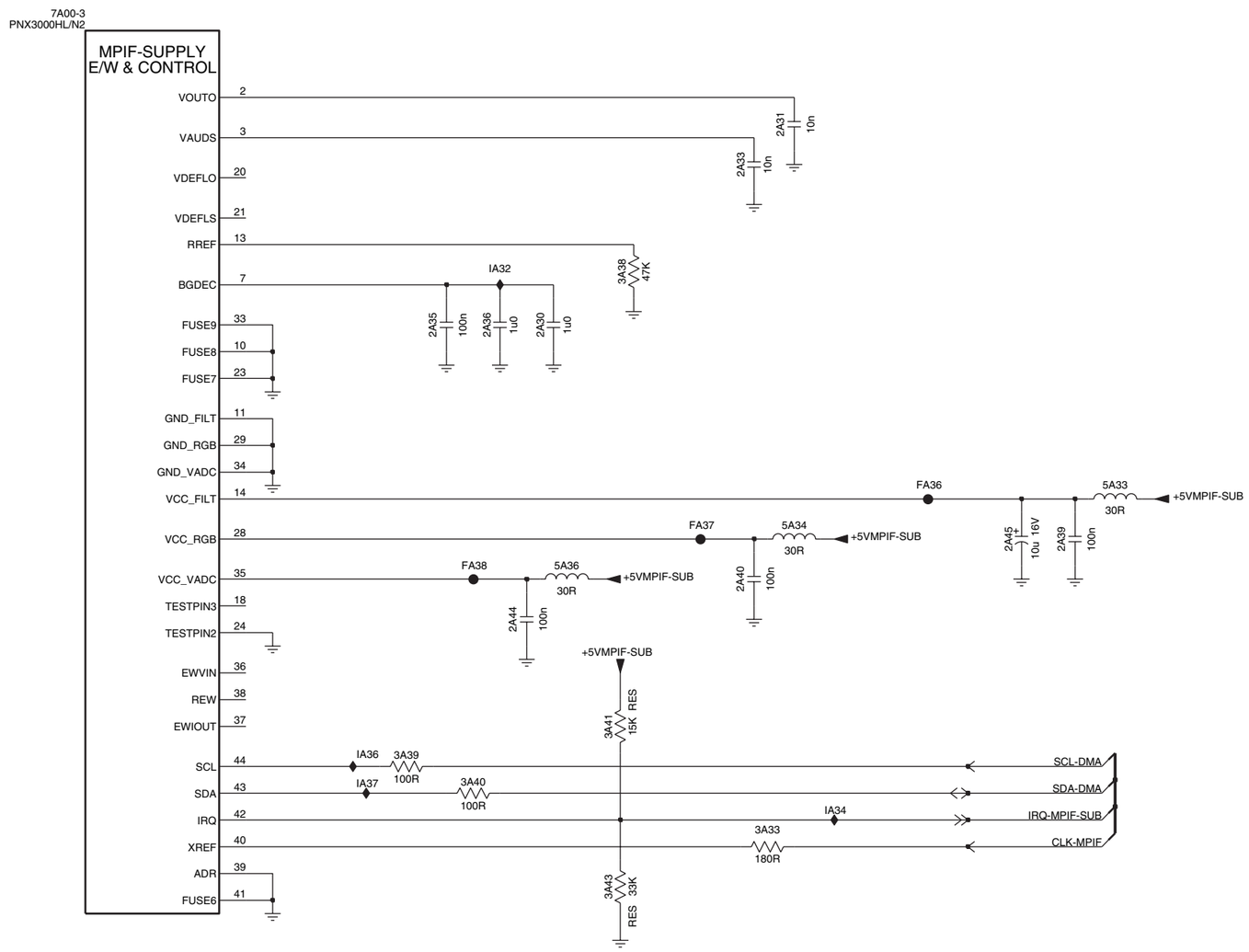
G_15990_012.eps
120406

SSB: MPIF Sub: Supply & Control

B4F MPIF SUB: SUPPLY + CONTROL

B4F





1A33 B1
2A30 C6
2A31 B8
2A33 B8
2A35 C6
2A36 C6
2A39 D9
2A40 D8
2A44 D6
2A45 D9
3A31 A1
3A33 F8
3A38 C7
3A39 E6
3A40 E6
3A41 E7
3A43 F7
5A33 D10
5A34 D8
5A36 D7
7A00-3 A4
FA36 D9
FA37 D7
FA38 D6
IA20 A2
IA21 B2
IA32 C6
IA34 E8
IA36 E6
IA37 E6

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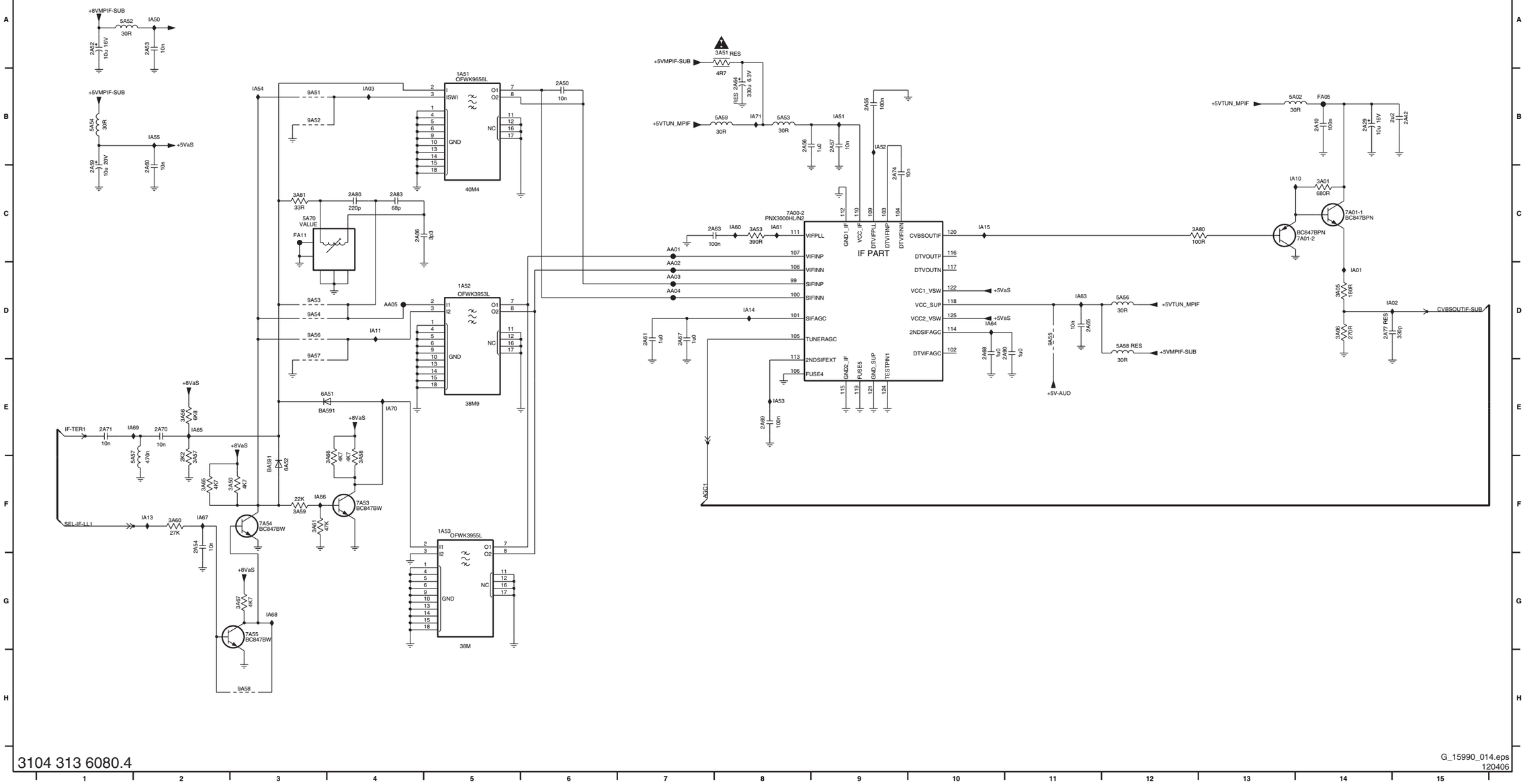
SSB: MPIF Sub: IF & SAW Filter

1A51 B5	2A29 B14	2A53 A2	2A57 B9	2A63 C8	2A68 D10	2A74 C9	2A86 C4	3A06 D14	3A56 E2	3A60 F2	3A67 G3	5A52 A1	5A57 F2	6A51 E4	7A01-2 C14	9A51 B3	9A55 D11	AA01 C7	AA05 D4	IA02 D15	IA13 F2	IA51 B9	IA55 B2	IA64 D10	IA68 G3
1A52 D5	2A42 B15	2A54 F2	2A59 C1	2A64 B8	2A69 E8	2A77 D14	2A90 D11	3A50 F3	3A57 F2	3A61 F3	3A80 C13	5A53 B8	5A58 D12	6A52 F3	7A53 F4	9A52 B3	9A56 D3	AA02 D7	FA05 B14	IA03 B4	IA14 D8	IA52 B9	IA60 C8	IA65 E2	IA69 E2
1A53 F5	2A50 B6	2A55 B9	2A60 C2	2A65 D11	2A70 E2	2A80 C4	3A01 C14	3A51 A8	3A58 F4	3A65 F2	3A81 C3	5A54 B1	5A59 B8	7A00-2 C8	7A54 F3	9A53 D3	9A57 D3	AA03 D7	FA11 C3	IA10 C14	IA15 C10	IA53 E8	IA61 C8	IA66 F3	IA70 E4
2A10 B14	2A52 A1	2A56 B8	2A61 D7	2A67 D7	2A71 E1	2A83 C4	3A05 D14	3A53 C8	3A59 F3	3A66 F4	5A02 B14	5A56 D12	5A70 C3	7A01-1 C14	7A55 G3	9A54 D3	9A58 H3	AA04 D7	IA01 D14	IA11 D4	IA50 A2	IA54 B3	IA63 D11	IA67 F2	IA71 B8

B4G MPIF SUB: IF + SAW FILTER



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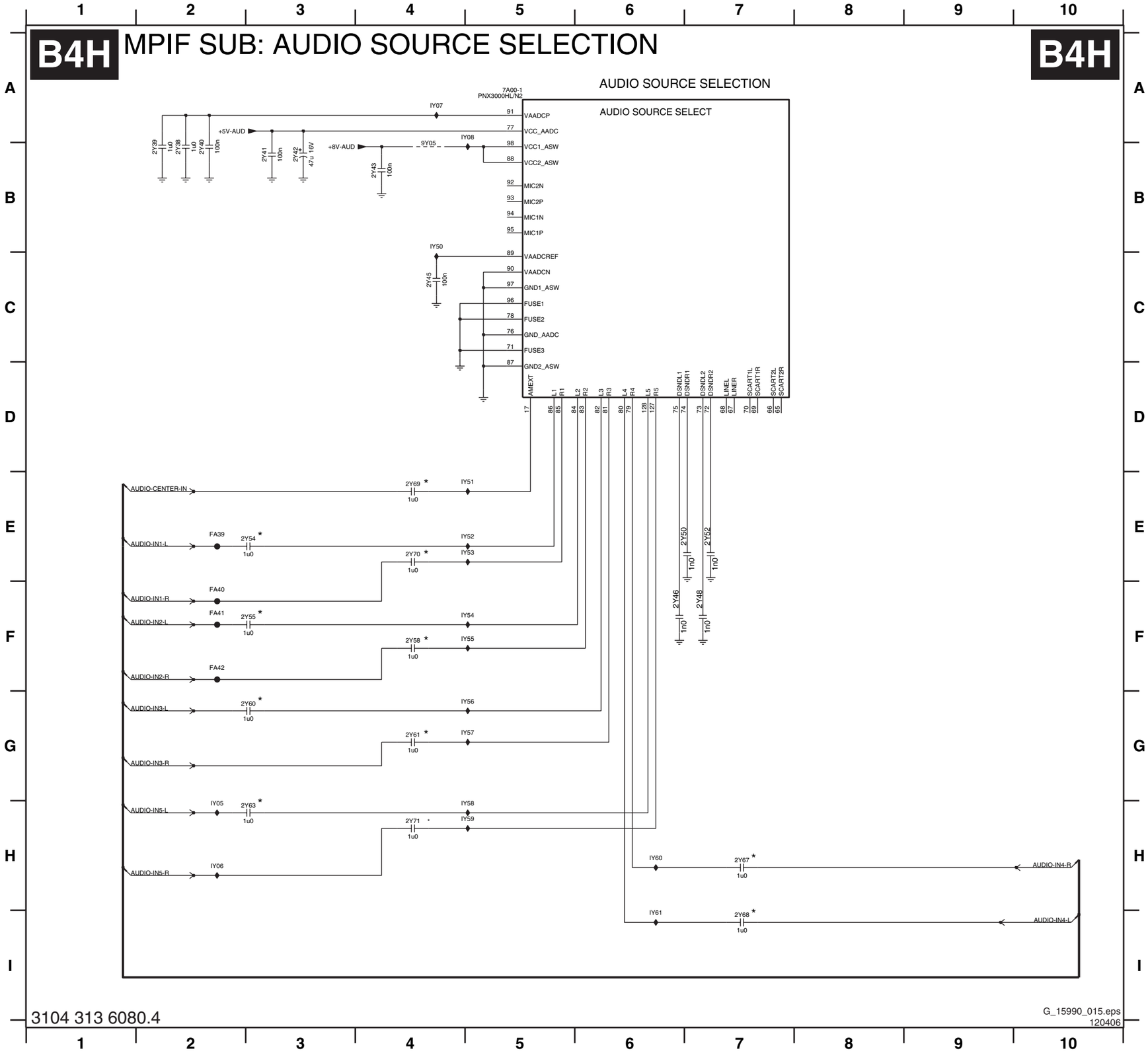
SSB: MPIF Sub: Audio Source Selection

B4H MPIF SUB: AUDIO SOURCE SELECTION



SSB: MPIF Sub: Audio Amplifier

B4 I MPIF SUB: AUDIO AMPLIFIER

B4 I

+12VSW
2A82 100n
IK40
7A03-1 LM324
3 2 1 4 11
9Y01
AUDIO-L
AUDIO-R
3A42 1K0
IK41
3A10 47K
3A11 18K
2A85 33p
9Y04

+12VSW
7A03-3 LM324
10 9 8 4 11

+5V-AUD
+5V-AUD
3A24 33K
3A25 33K
IA24
IA25
2A81 1u0
3A26 47K
2A84 1u0
3A27 47K

+12VSW
7A03-4 LM324
12 13 14 4 11
IK42
9Y02
3A45 1K0
IK44
3A12 47K
3A14 18K
2A91 33p
9Y06

9Y07
+12VSW
7A03-2 LM324
5 6 7 4 11
IK43
9Y03
AUDIO-SW
IA30
RES 3A47 220K
3A46 1K0
RES 2A87 1u0
IK45
3A13 47K
9A23
2A92 33p
RES 3A48 82K
3A15 22K

IA31
ADAC1
IA23
ADAC2
IA22
ADAC4
IA26
ADAC7
2A88 100n
IA28
IA27
ADAC8
2A89 100n
IA29
3A28 100K
3A29 100K

+5V2S
2A93 100n
7A04-2 TS482IST
5 6 8 4 7
2A98 33p
RES 9A21
IK47
3A17 100K
2A96 1u0
3A20 33K
IK49
3A21 27K
AUDIO-HDPH-R

+5V2S
7A04-1 TS482IST
3 2 8 4 1
IK46
AUDIO-HDPH-L
2A99 33p
RES 9A22
IK48
3A19 100K
2A97 1u0
3A22 33K
IK50
3A23 27K

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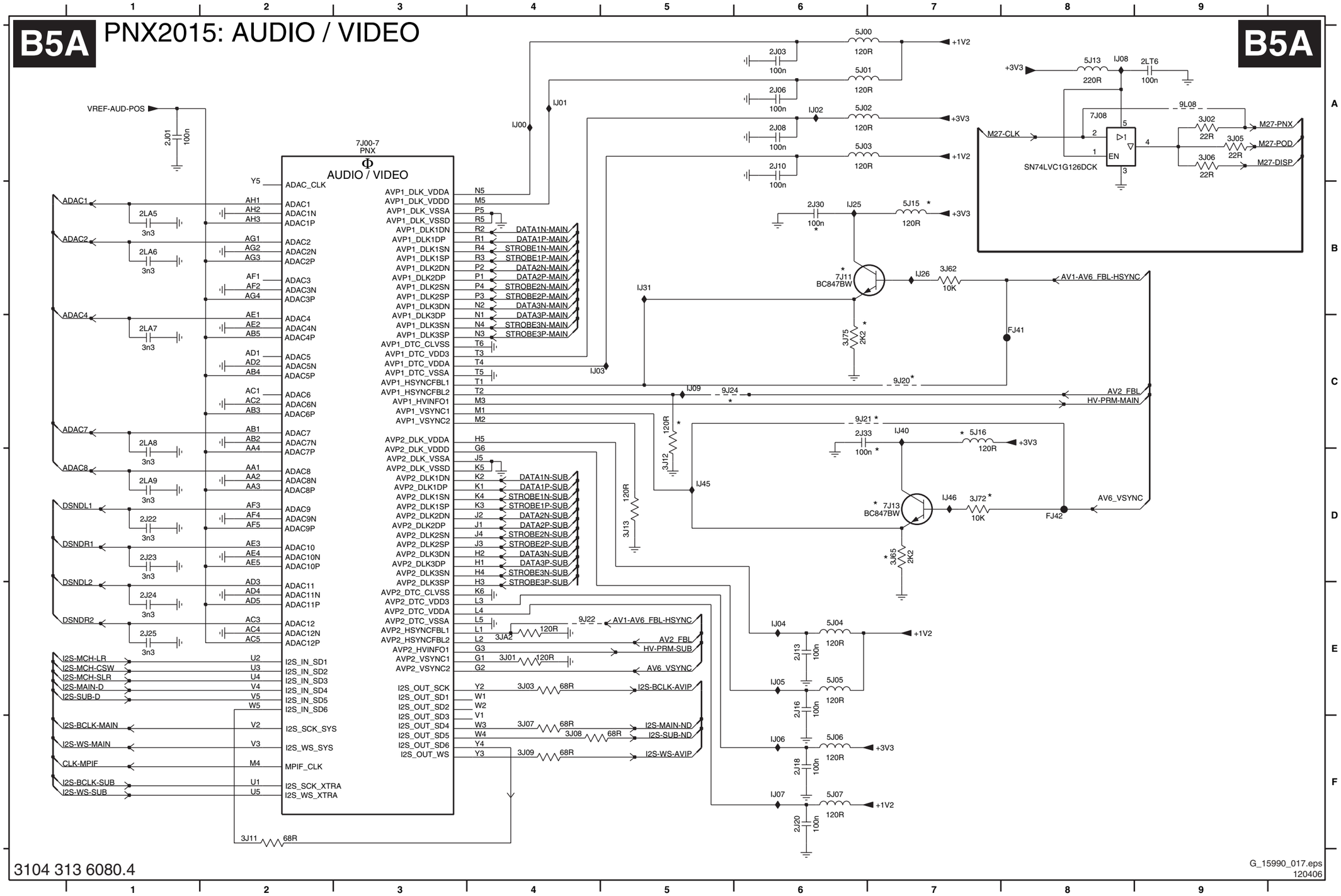
2A81 C2
2A82 A5
2A84 C2
2A85 B5
2A87 D7
2A88 D2
2A89 E2
2A91 D5
2A92 D7
2A93 E4
2A96 F4
2A97 F6
2A98 F4
2A99 F7
3A10 B5
3A11 B4
3A12 C5
3A13 D7
3A14 D4
3A15 D7
3A17 F4
3A19 F7
3A20 F3
3A21 F4
3A22 F6
3A23 F7
3A24 C2
3A25 C3
3A26 C2
3A27 C3
3A28 E2
3A29 E3
3A42 A5
3A45 C5
3A46 C8
3A47 C7
3A48 D7
7A03-1 A4
7A03-2 C7
7A03-3 A2
7A03-4 C4
7A04-1 E7
7A04-2 E4
9A21 F3
9A22 F6
9A23 D7
9Y01 A5
9Y02 C5
9Y03 C8
9Y04 B5
9Y06 D5
9Y07 B7
IA22 D2
IA23 D2
IA24 C2
IA25 C3
IA26 D2
IA27 E2
IA28 E2
IA29 E3
IA30 C7
IA31 D2
IK40 A5
IK41 A4
IK42 C5
IK43 C7
IK44 C4
IK45 D7
IK46 E7
IK47 F4
IK48 F7
IK49 F4
IK50 F7

SSB: PNX2015: Audio / Video

B5A PNX2015: AUDIO / VIDEO



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	2J01 A1	IJ02 A6
	2J03 A6	IJ03 C4
	2J06 A6	IJ04 E6
	2J08 A6	IJ05 E6
	2J10 A6	IJ06 F6
	2J13 E6	IJ07 F6
A	2J16 E6	IJ08 A8
	2J18 F6	IJ09 C5
	2J20 F6	IJ25 B6
	2J22 D1	IJ26 B7
	2J23 D1	IJ31 B5
	2J24 E1	IJ40 C7
	2J25 E1	IJ45 D5
	2J30 B6	IJ46 D7
	2J33 C6	
	2LA5 B1	
B	2LA6 B1	
	2LA7 C1	
	2LA8 C1	
	2LA9 D1	
	2LT6 A9	
	3J01 E4	
	3J02 A9	
	3J03 E4	
	3J05 A9	
C	3J06 A9	
	3J07 F4	
	3J08 F4	
	3J09 F4	
	3J11 F2	
	3J12 D5	
	3J13 D5	
	3J62 B7	
	3J65 D7	
D	3J72 D7	
	3J75 C6	
	3JA2 E4	
	5J00 A6	
	5J01 A6	
	5J02 A6	
	5J03 A6	
	5J04 E6	
	5J05 E6	
	5J06 F6	
E	5J07 F6	
	5J13 A8	
	5J15 B7	
	5J16 C7	
	7J00-7 A3	
	7J08 A8	
	7J11 B6	
	7J13 D7	
	9J20 C7	
F	9J21 C6	
	9J22 E4	
	9J24 C5	
	9L08 A9	
	FJ41 C8	
	FJ42 D8	
	IJ00 A4	
	IJ01 A4	

SSB: PNX2015: DV I/O Interface

B5B PNX 2015: DV I/O INTERFACE

B5B

7J00-4
PNX
Φ
DV INPUT

DV4-CLK AK8 → DV_CLK
DV4-VALID AH8 → DV_VALID
DV4-DATA0_SOP AG8 → DV4_DATA_0
DV4-DATA1_ERR AK7 → DV4_DATA_1
DV4-DATA2_0 AJ7 → DV4_DATA_2
DV4-DATA3_1 AH7 → DV4_DATA_3
DV4-DATA4_2 AG7 → DV4_DATA_4
DV4-DATA5_3 AF7 → DV4_DATA_5
DV4-DATA6_4 AK6 → DV4_DATA_6
DV4-DATA7_5 AJ6 → DV4_DATA_7
DV4-DATA8_6 AH6 → DV4_DATA_8
DV4-DATA9_7 AG6 → DV4_DATA_9

DV5-DATA0_SOP AF6 → DV5_DATA_0
DV5-DATA1_ERR AK5 → DV5_DATA_1
DV5-DATA2_0 AH5 → DV5_DATA_2
DV5-DATA3_1 AG5 → DV5_DATA_3
DV5-DATA4_2 AK4 → DV5_DATA_4
DV5-DATA5_3 AJ4 → DV5_DATA_5
DV5-DATA6_4 AH4 → DV5_DATA_6
DV5-DATA7_5 AK3 → DV5_DATA_7
DV5-DATA8_6 AJ3 → DV5_DATA_8
DV5-DATA9_7 AK2 → DV5_DATA_9

DV-VREF AJ9 → DV_VREF
DV-FREF AK9 → DV_FREF
DV-HREF AH9 → DV_HREF

DV1_CLK ← AD28 → 3LR4-1 (33R) → DV1F-CLK
DV1_VALID ← AD29 → DV1F-VALID

DV1_DATA0 ← AB27 → 3LR3-4 (33R) → DV1F-DATA0
DV1_DATA1 ← AA30 → 3LR3-2 (33R) → DV1F-DATA1
DV1_DATA2 ← AA29 → 3LR3-1 (33R) → DV1F-DATA2
DV1_DATA3 ← AA28 → 3LR3-3 (33R) → DV1F-DATA3
DV1_DATA4 ← AB29 → 3LR4-3 (33R) → DV1F-DATA4
DV1_DATA5 ← AB28 → 3LR4-4 (33R) → DV1F-DATA5
DV1_DATA6 ← AC30 → 3LR4-2 (33R) → DV1F-DATA6
DV1_DATA7 ← AC28 → 3LR5-4 (33R) → DV1F-DATA7
DV1_DATA8 ← AC27 → 3LR5-3 (33R) → DV1F-DATA8_ERR
DV1_DATA9 ← AB30 → 3LR5-2 (33R) → DV1F-DATA9_SOP

DV2_CLK ← AF30 → 3LR1 (33R) → DV2A-CLK
DV2_VALID ← AF27 → 3LR7-1 (33R) → DV2A-VALID

DV2_DATA0 ← AE30 → 3LR8-2 (33R) → DV2A-DATA0_SOP
DV2_DATA1 ← AF28 → 3LR7-3 (33R) → DV2A-DATA1_ERR
DV2_DATA2 ← AD27 → 3LR6-4 (33R) → DV2A-DATA4_2
DV2_DATA3 ← AD26 → 3LR6-3 (33R) → DV2A-DATA5_3
DV2_DATA4 ← AD30 → 3LR6-1 (33R) → DV2A-DATA6_4
DV2_DATA5 ← AE26 → 3LR6-2 (33R) → DV2A-DATA7_5
DV2_DATA6 ← AE27 → 3LR8-1 (33R) → DV2A-DATA8_6
DV2_DATA7 ← AE28 → 3LR8-3 (33R) → DV2A-DATA9_7
DV2_DATA8 ← AE29 → 3LR8-4 (33R)
DV2_DATA9 ← AG27 → 3LR7-2 (33R)

DV3_CLK ← AK28 → 3LR0 (33R) → DV3F-CLK
DV3_VALID ← AK30 → 3LS1-2 (33R) → DV3F-VALID

DV3_DATA0 ← AJ30 → 3LR9-1 (33R) → DV3F-DATA0_SOP
DV3_DATA1 ← AH29 → 3LR9-3 (33R) → DV3F-DATA1_ERR
DV3_DATA2 ← AG29 → 3LS0-3 (33R) → DV3F-DATA2_0
DV3_DATA3 ← AG30 → 3LR9-4 (33R) → DV3F-DATA3_1
DV3_DATA4 ← AH30 → 3LS1-4 (33R) → DV3F-DATA4_2
DV3_DATA5 ← AG28 → 3LS0-4 (33R) → DV3F-DATA5_3
DV3_DATA6 ← AH27 → 3LR9-2 (33R) → DV3F-DATA6_4
DV3_DATA7 ← AJ28 → 3LS1-3 (33R) → DV3F-DATA7_5
DV3_DATA8 ← AK29 → 3LS1-1 (33R) → DV3F-DATA8_6
DV3_DATA9 ← AH28 → 3LS0-2 (33R) → DV3F-DATA9_7

7J00-2
PNX
Φ
OUTPUT INTERFACE

PN-ROUT-0 A27 → RIN0
PN-ROUT-1 A28 → RIN1
PN-ROUT-2 A29 → RIN2
PN-ROUT-3 A30 → RIN3
PN-ROUT-4 B28 → RIN4
PN-ROUT-5 B30 → RIN5
PN-ROUT-6 C28 → RIN6
PN-ROUT-7 C29 → RIN7
PN-ROUT-8 C30 → RIN8
PN-ROUT-9 D27 → RIN9

PN-GOUT-0 D28 → GIN0
PN-GOUT-1 D29 → GIN1
PN-GOUT-2 D30 → GIN2
PN-GOUT-3 E27 → GIN3
PN-GOUT-4 E28 → GIN4
PN-GOUT-5 E30 → GIN5
PN-GOUT-6 F26 → GIN6
PN-GOUT-7 F27 → GIN7
PN-GOUT-8 F28 → GIN8
PN-GOUT-9 F29 → GIN9

PN-BOUT-0 F30 → BIN0
PN-BOUT-1 G26 → BIN1
PN-BOUT-2 G27 → BIN2
PN-BOUT-3 G28 → BIN3
PN-BOUT-4 G29 → BIN4
PN-BOUT-5 G30 → BIN5
PN-BOUT-6 H27 → BIN6
PN-BOUT-7 H28 → BIN7
PN-BOUT-8 H30 → BIN8
PN-BOUT-9 J26 → BIN9

LVDS_AN B26 → TXPNXA-
LVDS_AP C26 → TXPNXA+
LVDS_BN A25 → TXPNXB-
LVDS_BP B25 → TXPNXB+
LVDS_CN D25 → TXPNXC-
LVDS_CP E25 → TXPNXC+
LVDS_DN B24 → TXPNXD-
LVDS_DP C24 → TXPNXD+
LVDS_EN E24 → TXPNXE-
LVDS_EP F24 → TXPNXE+
LVDS_CLKN C23 → TXPNXCLK-
LVDS_CLKP D23 → TXPNXCLK+
RGB_CLK_IN J30 → PN-OUT-CLK
RGB_UD J27 → PN-OUT-FF
RGB_HSYNC J29 → PN-OUT-HS
RGB_VSYNC J28 → PN-OUT-VS
RGB_DE K26 → PN-OUT-DE

IJ48 — 1LA1

TXPNXA- → 11
TXPNXA+ → 12
TXPNXB- → 15
TXPNXB+ → 16
TXPNXC- → 18
TXPNXC+ → 19
TXPNXCLK- → 21
TXPNXCLK+ → 22
TXPNXD- → 24
TXPNXD+ → 25
TXPNXE- → 27
TXPNXE+ → 28
33 → 32

FI-WE31P-HFE-E1500

1LA1 D9
3LR0 D4
3LR1 C4
3LR3-1 C4
3LR3-2 B4
3LR3-3 C4
3LR3-4 B4
3LR4-1 B4
3LR4-2 C4
3LR4-3 C4
3LR4-4 C4
3LR5-2 C4
3LR5-3 C4
3LR5-4 C4
3LR6-1 D4
3LR6-2 D4
3LR6-3 D4
3LR6-4 D4
3LR7-1 C4
3LR7-2 D4
3LR7-3 C4
3LR8-1 D4
3LR8-2 C4
3LR8-3 D4
3LR8-4 D4
3LR9-1 D4
3LR9-2 E4
3LR9-3 D4
3LR9-4 E4
3LS0-2 E4
3LS0-3 E4
3LS0-4 E4
3LS1-1 E4
3LS1-2 D4
3LS1-3 E4
3LS1-4 E4
7J00-2 A7
7J00-4 B2
IJ48 D8

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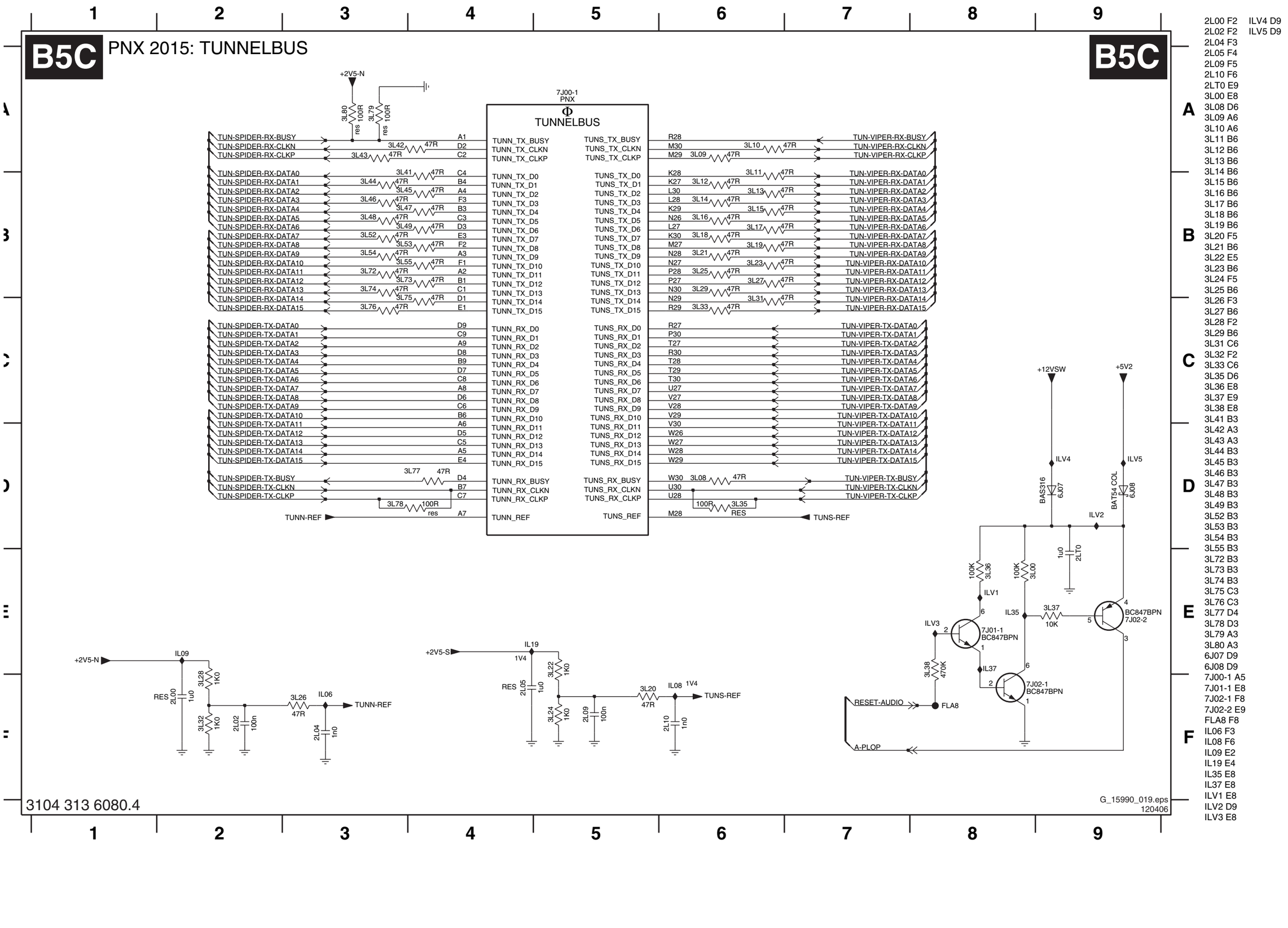
SSB: PNX2015: Tunnelbus

B5C PNX 2015: TUNNELBUS



2L00 F2 ILV4 D9
2L02 F2 ILV5 D9
2L04 F3
2L05 F4
2L09 F5
2L10 F6
2LT0 E9
3L00 E8
3L08 D6
3L09 A6
3L10 A6
3L11 B6
3L12 B6
3L13 B6
3L14 B6
3L15 B6
3L16 B6
3L17 B6
3L18 B6
3L19 B6
3L20 F5
3L21 B6
3L22 E5
3L23 B6
3L24 F5
3L25 B6
3L26 F3
3L27 B6
3L28 F2
3L29 B6
3L31 C6
3L32 F2
3L33 C6
3L35 D6
3L36 E8
3L37 E9
3L38 E8
3L41 B3
3L42 A3
3L43 A3
3L44 B3
3L45 B3
3L46 B3
3L47 B3
3L48 B3
3L49 B3
3L52 B3
3L53 B3
3L54 B3
3L55 B3
3L72 B3
3L73 B3
3L74 B3
3L75 C3
3L76 C3
3L77 D4
3L78 D3
3L79 A3
3L80 A3
6J07 D9
6J08 D9
7J00-1 A5
7J01-1 E8
7J02-1 F8
7J02-2 E9
FLA8 F8
IL06 F3
IL08 F6
IL09 E2
IL19 E4
IL35 E8
IL37 E8
ILV1 E8
ILV2 D9
ILV3 E8

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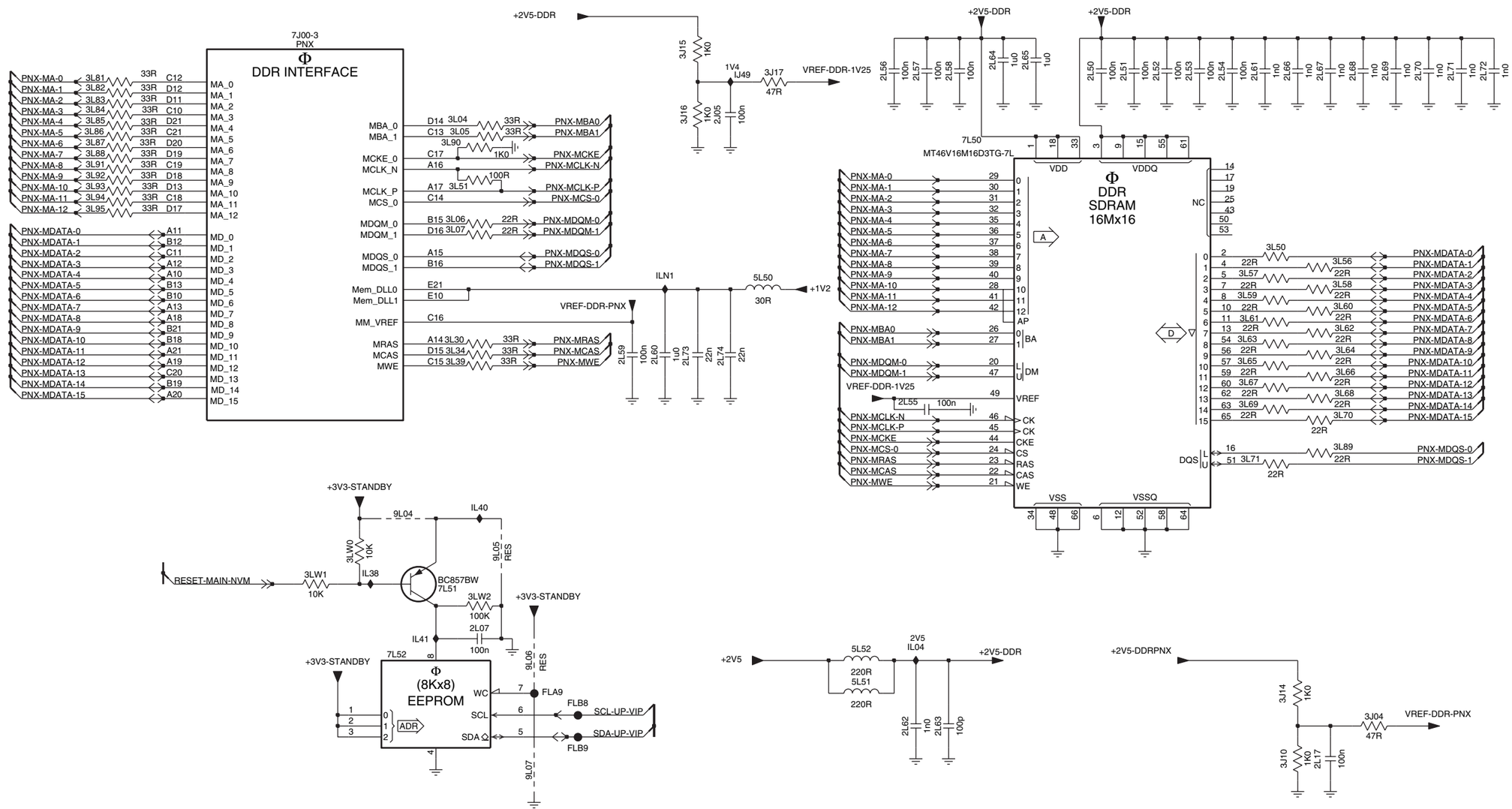
SSB: PNX2015: DDR Interface

B5D PNX 2015: DDR INTERFACE



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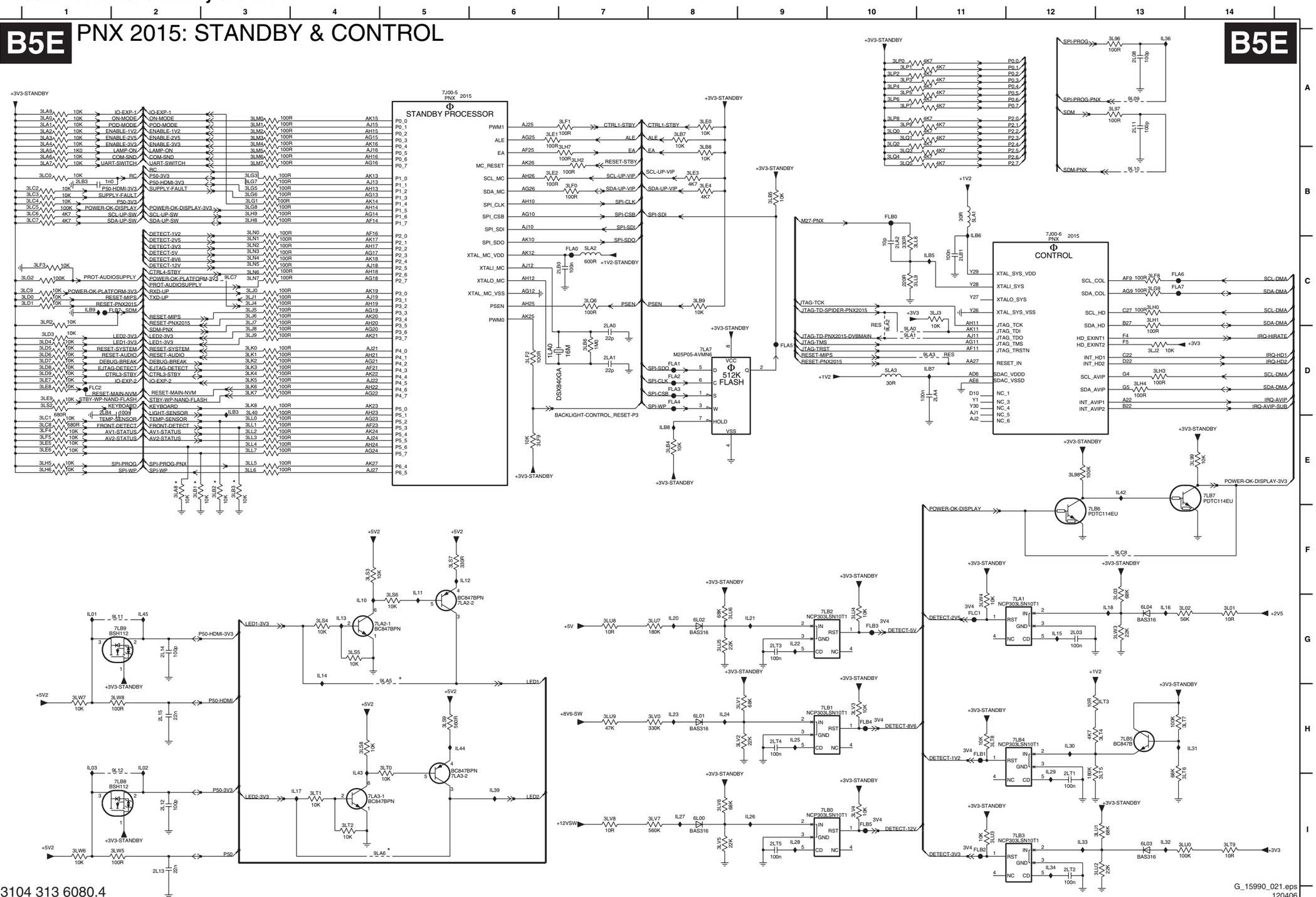
2J05 B5	3LW1 E3
2L07 E4	3LW2 E4
2L17 F9	5L50 C6
2L50 A8	5L51 E6
2L51 A8	5L52 E6
2L52 A8	7J00-3 A3
2L53 A8	7L50 B7
2L54 A9	7L51 E3
2L55 C7	7L52 E3
2L56 A6	9L04 D3
2L57 A7	9L05 D4
2L58 A7	9L06 E4
2L59 C5	9L07 F4
2L60 C5	FLA9 E4
2L61 A9	FLB8 E4
2L62 F7	FLB9 F4
2L63 F7	IJ49 A5
2L64 A7	IL04 E7
2L65 A7	IL38 E3
2L66 A9	IL40 D4
2L67 A9	IL41 E3
2L68 A9	ILN1 C5
2L69 A10	
2L70 A10	
2L71 A10	
2L72 A10	
2L73 C5	
2L74 C5	
3J04 F10	
3J10 F9	
3J14 E9	
3J15 A5	
3J16 B5	
3J17 A6	
3L04 B4	
3L05 B4	
3L06 B4	
3L07 B4	
3L30 C4	
3L34 C4	
3L39 C4	
3L50 C9	
3L51 B4	
3L56 C9	
3L57 C9	
3L58 C9	
3L59 C9	
3L60 C9	
3L61 C9	
3L62 C9	
3L63 C9	
3L64 C9	
3L65 C9	
3L66 C9	
3L67 C9	
3L68 C9	
3L69 D9	
3L70 D9	
3L71 D9	
3L81 A1	
3L82 A1	
3L83 B1	
3L84 B1	
3L85 B1	
3L86 B1	
3L87 B1	
3L88 B1	
3L89 D9	
3L90 B4	
3L91 B1	
3L92 B1	
3L93 B1	
3L94 B1	
3L95 B1	
3LW0 D3	

SSB: PNX2015: Stand-by & Control

B5E PNX 2015: STANDBY & CONTROL

B5E



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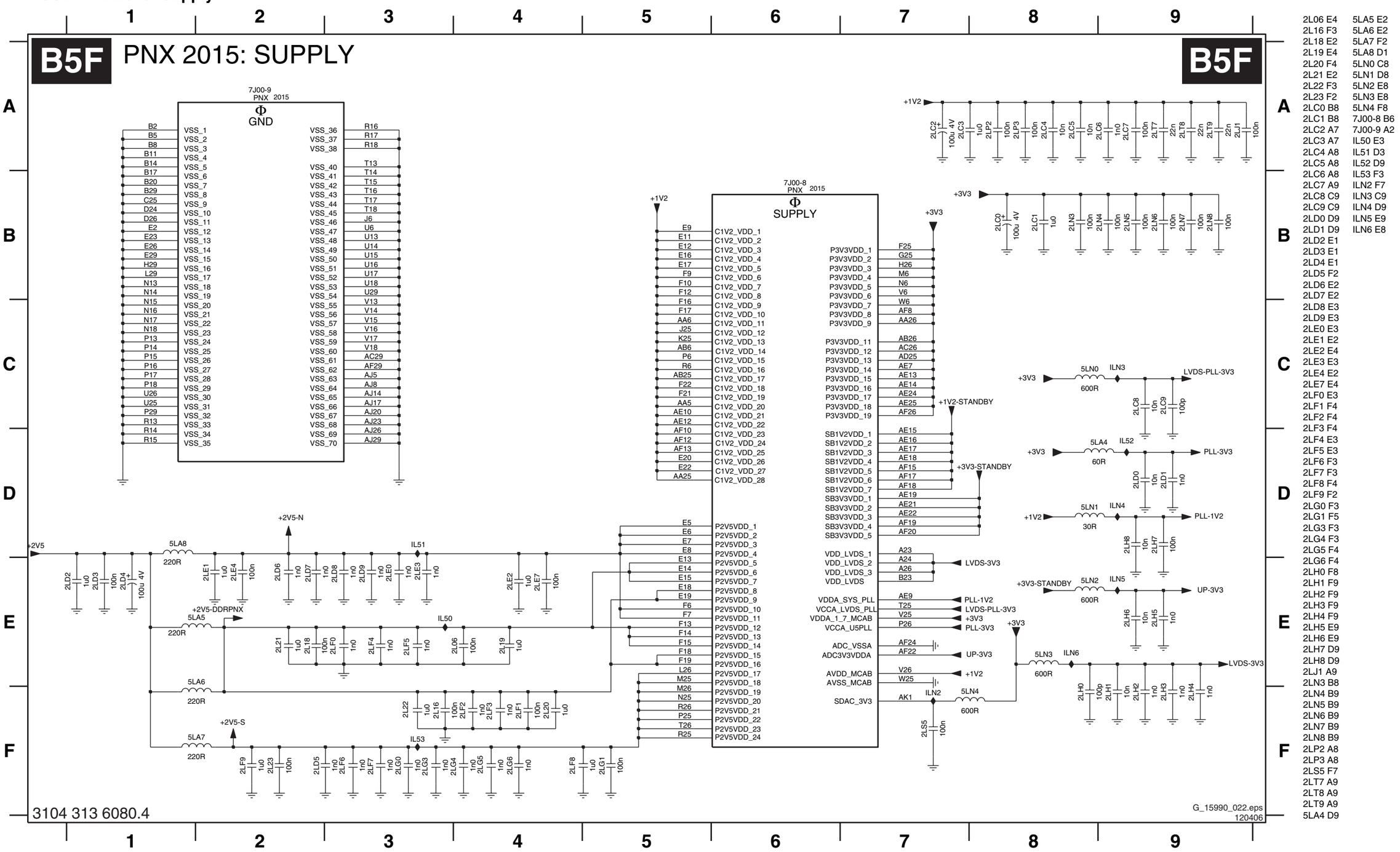
SSB: PNX2015: Supply

B5F PNX 2015: SUPPLY



2L06 E4
2L16 F3
2L18 E2
2L19 E4
2L20 F4
2L21 E2
2L22 F3
2L23 F2
2LC0 B8
2LC1 B8
2LC2 A7
2LC3 A7
2LC4 A8
2LC5 A8
2LC6 A8
2LC7 A9
2LC8 C9
2LC9 C9
2LD0 D9
2LD1 D9
2LD2 E1
2LD3 E1
2LD4 E1
2LD5 F2
2LD6 E2
2LD7 E2
2LD8 E3
2LD9 E3
2LE0 E3
2LE1 E2
2LE2 E4
2LE3 E3
2LE4 E2
2LE7 E4
2LF0 E3
2LF1 F4
2LF2 F4
2LF3 F4
2LF4 E3
2LF5 E3
2LF6 F3
2LF7 F3
2LF8 F4
2LF9 F2
2LG0 F3
2LG1 F5
2LG3 F3
2LG4 F3
2LG5 F4
2LG6 F4
2LH0 F8
2LH1 F9
2LH2 F9
2LH3 F9
2LH4 F9
2LH5 E9
2LH6 E9
2LH7 D9
2LH8 D9
2LJ1 A9
2LN3 B8
2LN4 B9
2LN5 B9
2LN6 B9
2LN7 B9
2LN8 B9
2LP2 A8
2LP3 A8
2LS5 F7
2LT7 A9
2LT8 A9
2LT9 A9
5LA4 D9
5LA5 E2
5LA6 E2
5LA7 F2
5LA8 D1
5LN0 C8
5LN1 D8
5LN2 E8
5LN3 E8
5LN4 F8
7J00-8 B6
7J00-9 A2
IL50 E3
IL51 D3
IL52 D9
IL53 F3
ILN2 F7
ILN3 C9
ILN4 D9
ILN5 E9
ILN6 E8

SSB: Spider: Tunnelbus

B6A SPIDER: TUNNELBUS

B6A

7R00-2
SPIDER 2

TUNNELBUS

TUN-SPIDER-RX-DATA0 A2
TUN-SPIDER-RX-DATA1 B2
TUN-SPIDER-RX-DATA2 A1
TUN-SPIDER-RX-DATA3 B6
TUN-SPIDER-RX-DATA4 A3
TUN-SPIDER-RX-DATA5 A4
TUN-SPIDER-RX-DATA6 B5
TUN-SPIDER-RX-DATA7 A5
TUN-SPIDER-RX-DATA8 B11
TUN-SPIDER-RX-DATA9 B3
TUN-SPIDER-RX-DATA10 B12
TUN-SPIDER-RX-DATA11 B7
TUN-SPIDER-RX-DATA12 B8
TUN-SPIDER-RX-DATA13 B9
TUN-SPIDER-RX-DATA14 A9
TUN-SPIDER-RX-DATA15 A10

TUN-SPIDER-RX-BUSY B10 (3R19 47R)
TUN-SPIDER-RX-CLKN A7
TUN-SPIDER-RX-CLKP A6

+2V5-SP-TUN
3R40 100R RES
C9
D6

TUN-RX-DATA0 … TUN-RX-DATA15
TUN-RX-BUSY
TUN-RX-CKAN
TUN-RX-CKAP
TUN_RX_VREF1
TUN_RX_VREF2

TUN-TX-DATA0 … TUN-TX-DATA15
TUN-TX-BUSY
TUN-TX-CKAN
TUN-TX-CKAP
TUN_TX_VREF1

K2 TUN-SPIDER-TX-DATA0 (3R10 47R)
L1 TUN-SPIDER-TX-DATA1 (3R11 47R)
N1 TUN-SPIDER-TX-DATA2 (3R02 47R)
J1 TUN-SPIDER-TX-DATA3 (3R12 47R)
N2 TUN-SPIDER-TX-DATA4 (3R14 47R)
F2 TUN-SPIDER-TX-DATA5 (3R13 47R)
K1 TUN-SPIDER-TX-DATA6 (3R04 47R)
J2 TUN-SPIDER-TX-DATA7 (3R03 47R)
D2 TUN-SPIDER-TX-DATA8 (3R06 47R)
F1 TUN-SPIDER-TX-DATA9 (3R05 47R)
E1 TUN-SPIDER-TX-DATA10 (3R15 47R)
G1 TUN-SPIDER-TX-DATA11 (3R07 47R)
B1 TUN-SPIDER-TX-DATA12 (3R17 47R)
D1 TUN-SPIDER-TX-DATA13 (3R16 47R)
C2 TUN-SPIDER-TX-DATA14 (3R09 47R)
C1 TUN-SPIDER-TX-DATA15 (3R08 47R)

M1 TUN-SPIDER-TX-BUSY (3R88 100R RES +2V5-SP-TUN; 3R89 RES 100R)
H1
G2 TUN-SPIDER-TX-CLKN (3R71 47R)
TUN-SPIDER-TX-CLKP (3R72 47R)

M3
IR34

3R00 1K0
3R77 47R
2R62 1n0
2R63 1n0
2R18 1n0
RES 2R39 1u0
3R01 1K0
2R32 100n

PCI-CLK-SPIDER
9R06

+3V3-SP-GEN
3R46 10K
3R48 4K7
IR24
IR25
9R08 RES
RESET-TM
3R47 10K
7R04 BC847BW

7R00-3
SPIDER 2

CONTROL

IR03 Y2 CLK
IR04 A23 RESET
IR05 E22 SCL
IR06 E23 SDA
AB8 BISTEN
IR01 AC8 DIODE_IN
IR00 AC7 DIODE_OUT
H23 INT

TCK D23
TDI G22
TDO G23
TMS F22
TRST F23

9R01 RES
JTAG-TCK
JTAG-TD-P3-SPIDER
JTAG-TD-SPIDER-PNX2015
JTAG-TMS
JTAG-TRST

3R37 4K7 RES
3R38 4K7 RES
SCL-DMA 3R39 100R
SDA-DMA 3R42 100R
3R43 RES 10K
3R44 10K
3R45 RES 10K

3R49 10K RES
IR40
IRQ-SPIDER

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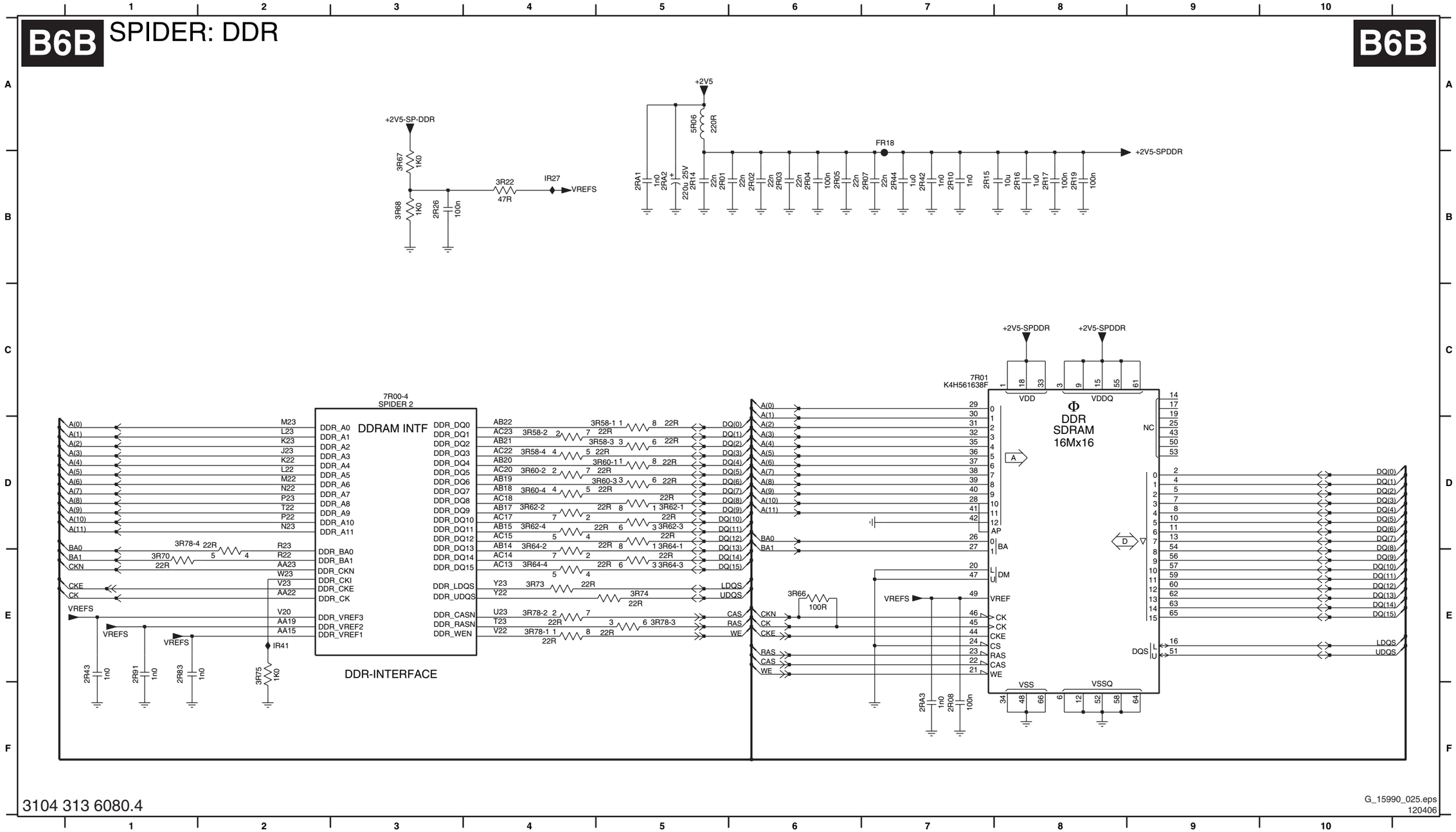
2R18 C6
2R32 C3
2R39 C3
2R62 C4
2R63 C4
3R00 C3
3R01 C3
3R02 A7
3R03 B6
3R04 B7
3R05 B6
3R06 B7
3R07 B6
3R08 B6
3R09 B7
3R10 A7
3R11 A6
3R12 A6
3R13 A6
3R14 A7
3R15 B7
3R16 B6
3R17 B7
3R19 B4
3R37 E3
3R38 E3
3R39 F3
3R40 C3
3R42 F3
3R43 F6
3R44 F6
3R45 F7
3R46 D2
3R47 E3
3R48 D3
3R49 F3
3R71 B6
3R72 C7
3R77 C3
3R88 B7
3R89 B7
7R00-2 A5
7R00-3 D5
7R04 E3
9R01 E7
9R06 E4
9R08 E3
IR00 F4
IR01 F4
IR03 E4
IR04 E4
IR05 E4
IR06 E4
IR24 E2
IR25 E3
IR34 C6
IR40 F4

SSB: Spider: DDR

2R01 B5	2R04 B6	2R08 F7	2R15 B7	2R19 B8	2R43 E1	2R91 E1	2RA3 F7	3R58-2 D4	3R60-1 D5	3R60-4 D4	3R62-3 D5	3R64-2 D4	3R66 E6	3R70 E1	3R75 E2	3R78-3 E5	7R00-4 C3	IR27 B4
2R02 B6	2R05 B6	2R10 B7	2R16 B8	2R26 B3	2R44 B7	2RA1 B5	3R22 B4	3R58-3 D5	3R60-2 D4	3R62-1 D5	3R62-4 D4	3R64-3 E5	3R67 B3	3R73 E4	3R78-1 E4	3R78-4 D1	7R01 C7	IR41 E2
2R03 B6	2R07 B7	2R14 B5	2R17 B8	2R42 B7	2R83 E1	2RA2 B5	3R58-1 D5	3R58-4 D4	3R60-3 D5	3R62-2 D4	3R64-1 D5	3R64-4 E4	3R68 B3	3R74 E5	3R78-2 E4	5R06 A5	FR18 A7	



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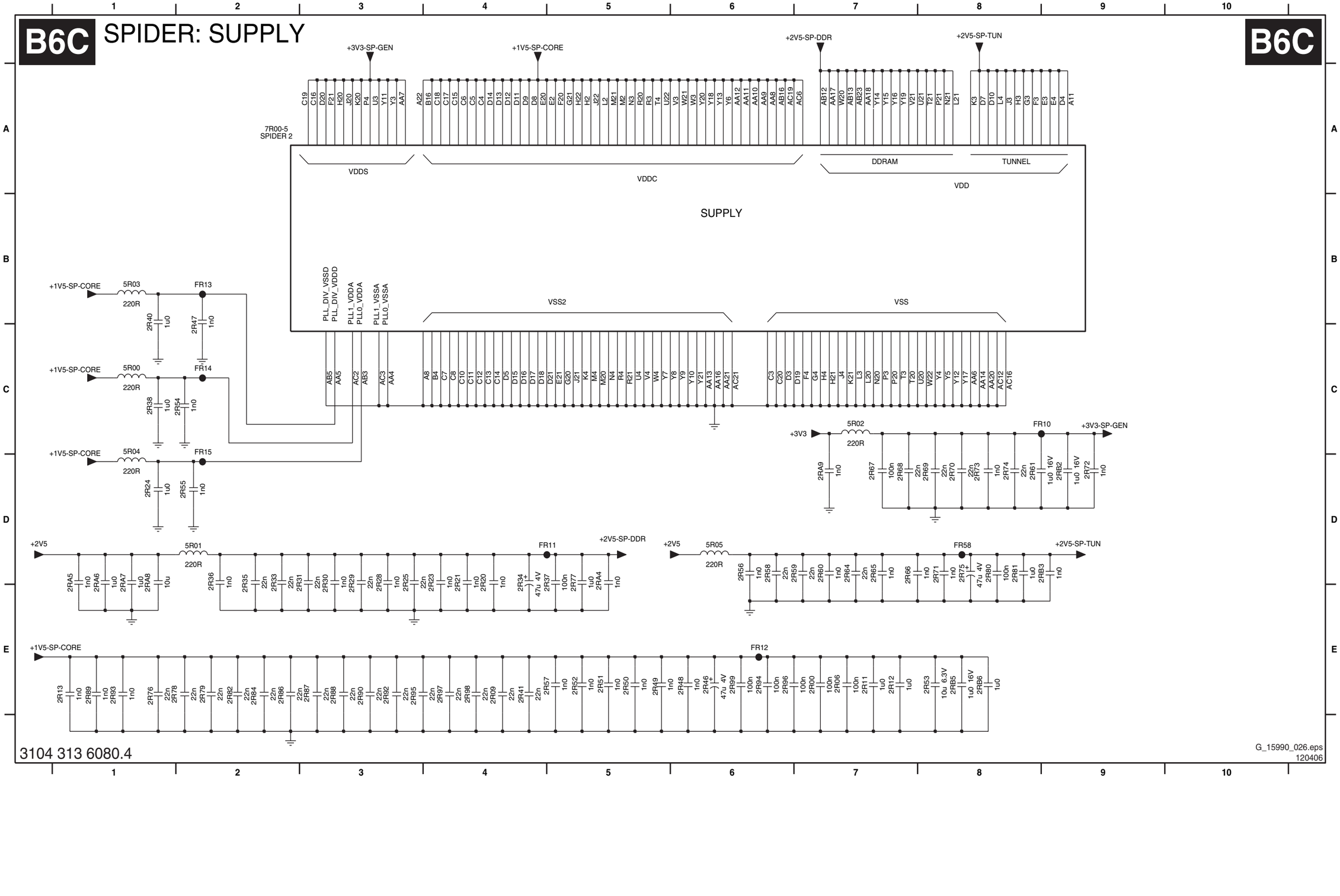
SSB: Spider: Supply

2R00 E7	2R13 E1	2R25 D3	2R33 D2	2R38 C1	2R48 E6	2R53 E8	2R58 D6	2R65 D7	2R70 D8	2R75 D8	2R80 D8	2R87 E3	2R93 E1	2R98 E4	2RA7 D1	2RB5 E8	5R03 B1	FR11 D5	FR58 D8
2R06 E7	2R20 D4	2R28 D3	2R34 D4	2R40 B1	2R49 E5	2R54 C1	2R59 D7	2R66 D7	2R71 D8	2R76 E1	2R81 D8	2R88 E3	2R94 E6	2R99 E6	2RA8 D1	2RB6 E8	5R04 C1	FR12 E6	
2R09 E4	2R21 D4	2R29 D3	2R35 D2	2R41 E4	2R50 E5	2R55 D2	2R60 D7	2R67 D7	2R72 D9	2R77 D5	2R82 E2	2R89 E1	2R95 E3	2RA4 D5	2RA9 D7	5R00 C1	5R05 D6	FR13 B2	
2R11 E7	2R23 D4	2R30 D3	2R36 D2	2R46 E6	2R51 E5	2R56 D6	2R61 D8	2R68 D7	2R73 D8	2R78 E2	2R84 E2	2R90 E3	2R96 E6	2RA5 D1	2RB2 D9	5R01 D2	7R00-5 A2	FR14 C2	
2R12 E7	2R24 D1	2R31 D2	2R37 D5	2R47 C2	2R52 E5	2R57 E4	2R64 D7	2R69 D8	2R74 D8	2R79 E2	2R86 E2	2R92 E3	2R97 E4	2RA6 D1	2RB3 D9	5R02 C7	FR10 C9	FR15 D2	



SSB: Spider: Debug

B6D SPIDER: DEBUG

B6D

7R00-1
SPIDER 2
DEBUG

A12	TST_IN0	TST_OUT0	A18
B13	TST_IN1	TST_OUT1	B18
A13	TST_IN2	TST_OUT2	A19
B14	TST_IN3	TST_OUT3	B19
A14	TST_IN4	TST_OUT4	A20
B15	TST_IN5	TST_OUT5	B20
A15	TST_IN6	TST_OUT6	A21
A16	TST_IN7	TST_OUT7	B21
A17	TST_IN8	TST_OUT8	C21
B17	TST_IN9	TST_OUT9	B22
AB11	TST_IN10	TST_OUT10	W2
AC11	TST_IN11	TST_OUT11	W1
AB10	TST_IN12	TST_OUT12	V2
AC10	TST_IN13	TST_OUT13	V1
AB9	TST_IN14	TST_OUT14	U2
AC9	TST_IN15	TST_OUT15	U1
AA3	TST_IN16	TST_OUT16	T2
AB2	TST_IN17	TST_OUT17	T1
AC1	TST_IN18	TST_OUT18	R2
AA2	TST_IN19	TST_OUT19	R1
C22	TST0	LFMONN_PLL	AB1
B23	TST1	LFMONP_PLL	AA1
C23	TST2	SCLOUTN_PLL	AC4
D22	TST3	SCLOUTP_PLL	AB4
AB7	TST_CLK0	TST_PD	P2
AB6	TST_CLK1	TST_SCAN_TUN	P1
AC5	TST_CLK2		
Y1	TST_CLK3		

+3V3-SP-GEN — RES 3R20 4K7 — 9R02

+8V6-SW — 2RC7 100n — 3R90 2K7 — IR50

+2V5 — IR52 — 7R11 PHD38N02LT — +1V5-SP-CORE

2RC5 1n0 — 2RC6 220u 25V — 2RC8 10u

7R10 TS431AILT (K, A, NC, REF) — IR51 — 3R41 220R — IR53

7R12-2 BC847BPN — 3R93 2K7 — IR54 — 3R94 1K0 — IR55 — 7R12-1 BC847BPN

IR56 — 3R95 100R — SUPPLY-FAULT

3R91 1K0 — 3R92 1K0

2RC5 E2
2RC6 E3
2RC7 D1
2RC8 E3
3R20 C5
3R41 E3
3R90 D2
3R91 F2
3R92 F3
3R93 E3
3R94 F3
3R95 E4
7R00-1 A6
7R10 E1
7R11 D3
7R12-1 F4
7R12-2 E3
9R02 C5
IR50 D2
IR51 E2
IR52 D3
IR53 E3
IR54 F3
IR55 F4
IR56 E4

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SSB: Spider: Control

1H00 A1 2H04 A12 2H05 C4 2H06 H10 2H07 H10 2H08 A1
2H09 A1 2H10 A12 3H01 C3 3H03 C5 3H04 B4 3H05 A4
3H06 B12 3H08 C5 3H09 D3 3H10 D3 3H11 E4 3H12 B12
3H13 D3 3H14 C12 3H15 C5 3H16 C5 3H17 E3 3H22 A3
3H23 A3 3H24 D6 3H25 F9 3H26 F9 3H27 D5 3H29 E3
3H30 F9 3H31 F4 3H33 F10 3H34 A11 3H35 A12 3H36 A12
3H37 A12 3H38 A12 3H39 A12 3H40 D6 3H43 C12 3H44 C6
3H45 C4 3H46 E12 3H52 C3 3H70 E10 3H71 C3 3H72 D8
3H73 A9 3H74 A9 3H75 A2 3H79 A9 3H80-1 C9 3H80-2 C9
3H80-3 C9 3H80-4 C10 3H81-1 C10 3H81-2 C10 3H81-3 C10 3H82 A1
3H83 E4 3H84 E10 3H85 E3 3H86 E10 3H87 E4 3H88 E10
3H89 C12 3H90 B2 3H91 B2 3H93 E10 3H94 H8 3H95 H9
3H97 E2 3H98 B6 3H99 B6 3Q03 B4 3Q04 B4 3Q15 B6 3Q16 H11
3Q11 A6 3Q12 B6 3Q13 B6 3Q14 B6 3Q15 B6 3Q23 H11
3Q17 H11 3Q18 H11 3Q21 H10 6H00 H9
6H01 D2 6H03 E1 7V00-5 A7 7V05 A11 7V10 D4 9H03 B6
9H04 B3 9H05 F6 9H06 E6 9H07 C4 9H08 C4 9H09 E4
9H13 C4 9H14 F6 9H15 F6 9H16 B6 AH10 A9
AH11 A1 FH12 H9 FQ04 A13 FQ05 A13 FQ06 A13
FQ07 A13 FQ08 A13 FQ09 E6 FQ10 E1 FQ11 A5 FQ12 B5
FQ19 E13 FQ20 D13 FQ21 E13 FQ22 E13 FQ23 E13 FQ43 A4
FQ44 A4 FQ52 E6 FQ53 F6 IH09 D3 IH16 F8 IH17 F8
IH18 F8 IQ03 G11 IQ05 G11 IQ06 G11 IQ04 G11 IQ12 G10
IQ13 H10 IQ22 F9 IQ23 F9 IQ24 G9 IQ25 G9 IQ27 E9
IQ28 F9 IQ30 D2 IQ50 B4 IQ51 B4

B7A VIPER: CONTROL

B7A

7V00-5 VIPER REV C

CONTROL

XTALI XTALO RESET_IN I2C1_SDA I2C1_SCL I2C2_SDA I2C2_SCL I2C3_SDA I2C3_SCL I2C4_SDA I2C4_SCL JTAG_TDO JTAG_TDI JTAG_TCK JTAG_TMS JTAG_TRST DBG_TDO DBG_TDI DBG_TCK DBG_TMS GPIO0 GPIO1 GPIO2 GPIO3 GPIO4 GPIO5 GPIO6 GPIO7 GPIO8 GPIO9 GPIO10 GPIO11 GPIO12 GPIO13 GPIO14 GPIO15 SC1_SCCK SC1_OFFN SC1_RST SC1_CMD SC1_DA SC2_SCCK SC2_OFFN SC2_RST SC2_CMD SC2_DA QVCP2L_DATA_OUT0 QVCP2L_DATA_OUT1 QVCP2L_DATA_OUT2 QVCP2L_DATA_OUT3 QVCP2L_DATA_OUT4 QVCP2L_DATA_OUT5 QVCP2L_DATA_OUT6 QVCP2L_DATA_OUT7 QVCP2L_DATA_OUT8 QVCP2L_DATA_OUT9 QVCP2L_CLK_OUT

PLL_OUT M135_CLK M27_CLK PCI_AD0 PCI_AD1 PCI_AD2 PCI_AD3 PCI_AD4 PCI_AD5 PCI_AD6 PCI_AD7 PCI_AD8 PCI_AD9 PCI_AD10 PCI_AD11 PCI_AD12 PCI_AD13 PCI_AD14 PCI_AD15 PCI_AD16 PCI_AD17 PCI_AD18 PCI_AD19 PCI_AD20 PCI_AD21 PCI_AD22 PCI_AD23 PCI_AD24 PCI_AD25 PCI_AD26 PCI_AD27 PCI_AD28 PCI_AD29 PCI_AD30 PCI_AD31 PCI_PAR PCI_PERR PCI_STOP PCI_TRDY PCI_IRDY PCI_FRAME PCI_DEVSEL PCI_IDSEL PCI_CLK PCI_CBE3 PCI_CBE2 PCI_CBE1 PCI_CBE0 PCI_SERR INTA PCI_REQ PCI_REQ_A PCI_REQ_B PCI_GNT PCI_GNT_A PCI_GNT_B XIO_D8 XIO_D9 XIO_D10 XIO_D11 XIO_D12 XIO_D13 XIO_D14 XIO_D15 XIO_ACK XIO_A25 XIO_SEL0 XIO_SEL1 XIO_SEL2 XIO_SEL3 XIO_SEL4 UA1_TX UA1_RX UA2_TX UA2_RX UA2_RTSN UA2_CTSN USB1_DM USB1_DP USB2_DM USB2_DP USB_BUS_PWR USB_OVRCUR SYS_RSTN_OUT

PCI-CLK-USB20 PCI-CLK-SPIDER PCI-CLK-VPR PCI-CLK-SLOT PCI-CLK-ETHERNET PCI-CLK-VPR PCI-CLK-ETHERNET PCI-CLK-USB20 PCI-CLK-SPIDER PCI-CLK-SLOT JTAG-TD-POD-CON JTAG-TD-CON-VIPER JTAG-TCK JTAG-TMS JTAG-TRST USB11-1-DM USB11-1-DP USB11-2-DM USB11-2-DP USB11-BUS-PW USB11-OVERCUR RESET-MIPS

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SSB: Spider: Main Memory

B7B VIPER: MAIN MEMORY

B7B

7V00-2
VIPER REV C

DDR INTERFACE

MM_A0 MM_A1 MM_A2 MM_A3 MM_A4 MM_A5 MM_A6 MM_A7 MM_A8 MM_A9 MM_A10 MM_A11 MM_A12

MM_BA0 MM_BA1

MM_CS0 MM_CS1

MM_DQM_0 MM_DQM_1 MM_DQM_2 MM_DQM_3

MM_DQS0 MM_DQS1 MM_DQS2 MM_DQS3

MM_RAS MM_CAS MM_WE

MM_CKE MM_CLK_N MM_CLK_P

MM_DATA0 MM_DATA1 MM_DATA2 MM_DATA3 MM_DATA4 MM_DATA5 MM_DATA6 MM_DATA7 MM_DATA8 MM_DATA9 MM_DATA10 MM_DATA11 MM_DATA12 MM_DATA13 MM_DATA14 MM_DATA15 MM_DATA16 MM_DATA17 MM_DATA18 MM_DATA19 MM_DATA20 MM_DATA21 MM_DATA22 MM_DATA23 MM_DATA24 MM_DATA25 MM_DATA26 MM_DATA27 MM_DATA28 MM_DATA29 MM_DATA30 MM_DATA31

MM_ADDR0 MM_ADDR1 MM_ADDR2 MM_ADDR3 MM_ADDR4 MM_ADDR5 MM_ADDR6 MM_ADDR7 MM_ADDR8 MM_ADDR9 MM_ADDR10 MM_ADDR11 MM_ADDR12

MM_AVREF

VREF-DDR-VPR 2V02 1n0

IQ16

3V44 RES 100R

3V78 100

K4D551638D-LC40 7V01

DDR SDRAM 16Mx16

+2V5D-DDR

VDD VDDQ NC

DQ(0) DQ(1) DQ(2) DQ(3) DQ(4) DQ(5) DQ(6) DQ(7) DQ(8) DQ(9) DQ(10) DQ(11) DQ(12) DQ(13) DQ(14) DQ(15)

DQS0 DQS1

VSS VSSQ

VREFD-DDR 2V00 1n0

MM_CLK_N MM_CLK_P 3V48 22dR

MM_CKE MM_CS0 MM_RAS MM_CAS MM_WE

MM_DATA_0 MM_DATA_1 MM_DATA_2 MM_DATA_3 MM_DATA_4 MM_DATA_5 MM_DATA_6 MM_DATA_7 MM_DATA_8 MM_DATA_9 MM_DATA_10 MM_DATA_11 MM_DATA_12 MM_DATA_13 MM_DATA_14 MM_DATA_15

MM_DQS0 MM_DQS1

3V01-4 3V00-1 3V01-3 3V00-2 3V01-2 3V00-3 3V01-1 3V00-4 3V16-1 3V18-1 3V16-2 3V18-2 3V16-3 3V18-3 3V16-4 3V18-4 3V42 3V40 22R

K4D551638D-LC40 7V02

DDR SDRAM 16Mx16

MM_DATA_16 MM_DATA_17 MM_DATA_18 MM_DATA_19 MM_DATA_20 MM_DATA_21 MM_DATA_22 MM_DATA_23 MM_DATA_24 MM_DATA_25 MM_DATA_26 MM_DATA_27 MM_DATA_28 MM_DATA_29 MM_DATA_30 MM_DATA_31

MM_DQS2 MM_DQS3

3V13-1 3V15-4 3V13-2 3V15-3 3V13-3 3V15-2 3V13-4 3V15-1 3V16-1 3V16-2 3V16-3 3V16-4 3V17-1 3V17-2 3V17-3 3V17-4 3V19-1 3V19-2 3V19-3 3V19-4 3V43 3V41 22R

DQ(16) DQ(17) DQ(18) DQ(19) DQ(20) DQ(21) DQ(22) DQ(23) DQ(24) DQ(25) DQ(26) DQ(27) DQ(28) DQ(29) DQ(30) DQ(31)

DQS2 DQS3

MM_A0 MM_A1 MM_A2 MM_A3 MM_A4 MM_A5 MM_A6 MM_A7 MM_A8 MM_A9 MM_A10 MM_A11 MM_A12

MM_BA0 MM_BA1

MM_DQM_2 MM_DQM_3

VREFD-DDR 2V01 1n0

MM_CLK_N MM_CLK_P 3V47 22dR

MM_CKE MM_CS0 MM_RAS MM_CAS MM_WE

+2V5-VPR

3V45 560R

IQ14 1V VREF-DDR-VPR

2V55 1u0 2V32 100n 2V56 100p 3V46 560R

+2V5D-DDR

3V74 560R

IQ15 VREFD-DDR

3V75 560R 2V52 100p 2V53 100n 2V54 1u0

+2V5D

5V01 220R 5V02 220R RES

IH21

2V03 100n 2V04 1n0 2V05 100p

+2V5D-DDR

2V16 100n 2V17 100n 2V18 100n 2V19 100n 2V20 100n 2V21 100n 2V22 100n 2V23 100n 2V24 100n 2V25 100n 2V26 100n 2V27 100n 2V28 100n 2V29 100n 2V30 100n 2V31 100n 2V06 1u0 2V07 1u0 2V08 1u0 2V09 1u0 2V10 1u0 2V11 1u0 2V12 1u0 2V13 1u0 2V35 330u 6.3V 2V14 220u 25V

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A B C D E F G H

2V01 C15
2V02 C2
2V03 H1
2V04 H2
2V05 H2
2V06 H7
2V07 H7
2V08 H7
2V09 H8
2V10 H8
2V11 H8
2V12 H8
2V13 H8
2V14 H9
2V16 H3
2V17 H4
2V18 H4
2V19 H4
2V20 H4
2V21 H5
2V22 H5
2V23 H5
2V24 H5
2V25 H5
2V26 H6
2V27 H6
2V28 H6
2V29 H6
2V30 H6
2V31 H7
2V32 F4
2V35 H9
2V36 A6
2V37 A7
2V38 A7
2V39 A9
2V40 A9
2V41 A9
2V42 A10
2V43 A10
2V44 A12
2V45 A12
2V46 A12
2V47 A12
2V48 A12
2V49 A15
2V50 A15
2V51 A15
2V52 F8
2V53 F8
2V54 F9
2V55 F4
2V56 F4
3V00-1 B10
3V00-2 B10
3V00-3 B10
3V00-4 B10
3V01-1 B10
3V01-2 B10
3V01-3 B10
3V01-4 B10
3V13-1 B12
3V13-2 B12
3V13-3 B12
3V13-4 B12
3V15-1 B12
3V15-2 B12
3V15-3 B12
3V15-4 B12
3V16-1 C10
3V16-2 C10
3V16-3 C10
3V16-4 C10
3V17-1 C12
3V17-2 C12
3V17-3 C12
3V17-4 C12
3V18-1 C10
3V18-2 C10
3V18-3 C10
3V18-4 C10
3V19-1 C12
3V19-2 C12
3V19-3 C12
3V19-4 C12
3V24 F8
3V25 F8
3V40 C10
3V41 C11
3V42 C10
3V43 C11
3V44 D2
3V45 F4
3V46 F4
3V47 C15
3V48 C7
3V78 E3
5V01 G2
5V02 H2
7V00-2 A4
7V01 A7
7V02 A14
IH21 G2
IQ14 F5
IQ15 F9

SSB: Viper: A/V + Tunnelbus

B7C VIPER: A/V + TUNNELBUS

B7C

7V00-1
VIPER REV C

AUDIO/VIDEO

DV1F-DATA0 AG13 DV1_DATA0
DV1F-DATA1 AH13 DV1_DATA1
DV1F-DATA2 AJ13 DV1_DATA2
DV1F-DATA3 AK13 DV1_DATA3
DV1F-DATA4 AG14 DV1_DATA4
DV1F-DATA5 AJ14 DV1_DATA5
DV1F-DATA6 AG15 DV1_DATA6
DV1F-DATA7 AH15 DV1_DATA7
DV1F-DATA8_ERR AJ15 DV1_DATA8
DV1F-DATA9_SOP AK15 DV1_DATA9
DV1F-VALID AG16 DV1_VALID
DV1F-CLK AH16 DV1_CLK

+3V3
4K7 3H28 DV1F-VALID
RES 2H20 4p7
AJ16
AK16

DV2A-DATA4_2 AJ17 DV2_DATA0
DV2A-DATA5_3 AG17 DV2_DATA1
DV2A-DATA6_4 AK18 DV2_DATA2
DV2A-DATA7_5 AJ18 DV2_DATA3
DV2A-DATA8_6 AH18 DV2_DATA4
DV2A-DATA9_7 AG19 DV2_DATA5
DV2A-VALID AK19 DV2_DATA6
DV2A-CLK AH19 DV2_DATA7
DV2A-DATA1_ERR AJ19 DV2_VALID
DV2A-DATA0_SOP AG18 DV2_CLK
4K7 3H32 DV2A-VALID DV2_ERR
DV2_SOP

DV3F-DATA2_0 AK24 DV3_DATA0
DV3F-DATA3_1 AJ24 DV3_DATA1
DV3F-DATA4_2 AK25 DV3_DATA2
DV3F-DATA5_3 AG23 DV3_DATA3
DV3F-DATA6_4 AH24 DV3_DATA4
DV3F-DATA7_5 AJ25 DV3_DATA5
DV3F-DATA8_6 AK26 DV3_DATA6
DV3F-DATA9_7 AG24 DV3_DATA7
DV3F-VALID AJ26 DV3_VALID
DV3F-CLK AG25 DV3_CLK
DV3F-DATA1_ERR AF24 DV3_ERR
4K7 3H18 DV3F-VALID
DV3F-DATA0_SOP AH25 DV3_SOP

IH10 AG26 DV_FREF
IH11 AK28 DV_VREF
IH15 AJ27 DV_HREF

I2S-MAIN-ND
I2S-SUB-ND
I2S-WS-AVIP
I2S-BCLK-AVIP
IQ26
IQ29
9H18
9H19
IH01 AA30 I2S_IN1_SD
AA29 I2S_IN1_WS
AA28 I2S_IN1_SCK
IH03 AB30 I2S_IN1_OSCLK
9H32
9H33
W28 I2S_IN2_SD
W27 I2S_IN2_WS
Y29 I2S_IN2_SCK
IH00 Y27 I2S_IN2_OSCLK

SPDIF-HDMI AA27 SPDIF_IN2
SPDIF-IN1 AC30 SPDIF_IN1

QVCP5L_DATA_OUT0 J28 68R 3Q28-4 DV-BOUT-0
QVCP5L_DATA_OUT1 J27 68R 3Q28-3 DV-BOUT-1
QVCP5L_DATA_OUT2 H30 3Q28-2 DV-BOUT-2
QVCP5L_DATA_OUT3 H27 3Q28-1 DV-BOUT-3
QVCP5L_DATA_OUT4 G30 DV-BOUT-4
QVCP5L_DATA_OUT5 G29 3Q34-3 DV-BOUT-5
QVCP5L_DATA_OUT6 G28 3Q34-2 DV-BOUT-6
QVCP5L_DATA_OUT7 G27 3Q34-1 DV-BOUT-7
QVCP5L_DATA_OUT8 F30 3Q26-4 DV-BOUT-8
QVCP5L_DATA_OUT9 F29 3Q26-3 DV-BOUT-9
QVCP5L_DATA_OUT10 M28 3Q25-2 DV-GOUT-0
QVCP5L_DATA_OUT11 M27 3Q25-1 DV-GOUT-1
QVCP5L_DATA_OUT12 L29 3Q38-4 DV-GOUT-2
QVCP5L_DATA_OUT13 L27 3Q38-3 DV-GOUT-3
QVCP5L_DATA_OUT14 K30 3Q38-2 DV-GOUT-4
QVCP5L_DATA_OUT15 K29 3Q38-1 DV-GOUT-5
QVCP5L_DATA_OUT16 K28 3Q08-4 DV-GOUT-6
QVCP5L_DATA_OUT17 K27 3Q08-3 DV-GOUT-7
QVCP5L_DATA_OUT18 J30 3Q08-2 DV-GOUT-8
QVCP5L_DATA_OUT19 J29 3Q08-1 DV-GOUT-9
QVCP5L_DATA_OUT20 R28 3Q07-4 DV-ROUT-0
QVCP5L_DATA_OUT21 R27 3Q07-3 DV-ROUT-1
QVCP5L_DATA_OUT22 P29 3Q07-2 DV-ROUT-2
QVCP5L_DATA_OUT23 P27 3Q07-1 DV-ROUT-3
QVCP5L_DATA_OUT24 N30 3Q05-4 DV-ROUT-4
QVCP5L_DATA_OUT25 N29 3Q05-3 DV-ROUT-5
QVCP5L_DATA_OUT26 N28 3Q05-2 DV-ROUT-6
QVCP5L_DATA_OUT27 N27 3Q05-1 DV-ROUT-7
QVCP5L_DATA_OUT28 M30 3Q25-4 DV-ROUT-8
QVCP5L_DATA_OUT29 M29 3Q25-3 DV-ROUT-9
QVCP5L_CLK_OUT E30 3H02 DV-OUT-CLK
QVCP5L_VSYNC F28 3Q02-3 DV-OUT-VS
QVCP5L_HSYNC F27 3Q02-4 DV-OUT-HS
QVCP5L_AUX1 G26 3Q02-1 DV-OUT-FF
QVCP5L_AUX2 E29 3Q02-2 DV-OUT-DE

DAC_IRSET AH30 IH08 3H19 1K0
DAC_RDUMPY AF27 IH07 3H21 39R
DAC_RDUMPC AH29 IH06 3H20 39R
DAC_CVBS AG28
DAC_CHROMA AJ30

IQ00 47R 3Q00 IQ01 5Q05 1u0 2Q29 100p FQ24 DAC-CVBS
3Q06 39R 2Q25 12p 2Q31 56p
IH12 120R 3Q01 IH13 5Q06 2u2 2H11 100p RES FQ25 C-MON-OUT
75R 3H92 2H13 12p RES 2H12 27p

TS_DATA0 AJ22 TS-DATA0
TS_DATA1 AG21 TS-DATA1
TS_DATA2 AK22 TS-DATA2
TS_DATA3 AH21 TS-DATA3
TS_DATA4 AJ21 TS-DATA4
TS_DATA5 AK21 TS-DATA5
TS_DATA6 AG20 TS-DATA6
TS_DATA7 AJ20 TS-DATA7
TS_VALID AK33 TS-VALID
TS_SOP AH22 TS-SOP
TS_CLK AG22 3Q05 33R TS-CLK

I2S_OUT1_SD0 U27 I2S-SUB-D
I2S_OUT1_SD1 V30 3H07 22R RES BACKLIGHT-CONTROL_RESET-P3
I2S_OUT1_SD2 V29 CTRL1-VIPER
I2S_OUT1_SD3 V28
I2S_OUT1_WS V27
I2S_OUT1_SCK W30 CTRL2-VIPER
I2S_OUT1_OSCLK W29 IH04

I2S_OUT2_SD0 T28 I2S-MCH-LR
I2S_OUT2_SD1 T27 I2S-MCH-CSW
I2S_OUT2_SD2 R30 I2S-MCH-SLR
I2S_OUT2_SD3 R29 I2S-MAIN-D
I2S_OUT2_WS T29 IQ31 I2S-WS-MAIN
I2S_OUT2_SCK T30 I2S-BCLK-MAIN
I2S_OUT2_OSCLK U29 IH05 IQ32

SPDIF_OUT AB29 9H21 SPDIF-OUT1

IQ34 IQ33
68R 3H49 IQ37 I2S-WS-SUB
68R 3H48 I2S-BCLK-SUB
IQ38
9H25 9H27
9H34
9H29

7V00-4
VIPER REV C

TUNNELBUS

TUN-VIPER-TX-DATA0 3Q33 47R N2 TUN_TX_DATA0
TUN-VIPER-TX-DATA1 3Q35 47R N1 TUN_TX_DATA1
TUN-VIPER-TX-DATA2 3Q37 47R P4 TUN_TX_DATA2
TUN-VIPER-TX-DATA3 3Q39 47R P2 TUN_TX_DATA3
TUN-VIPER-TX-DATA4 3Q41 47R R1 TUN_TX_DATA4
TUN-VIPER-TX-DATA5 3Q43 47R R2 TUN_TX_DATA5
TUN-VIPER-TX-DATA6 3Q45 47R R3 TUN_TX_DATA6
TUN-VIPER-TX-DATA7 3Q47 47R R4 TUN_TX_DATA7
TUN-VIPER-TX-DATA8 3Q49 47R T3 TUN_TX_DATA8
TUN-VIPER-TX-DATA9 3Q51 47R T4 TUN_TX_DATA9
TUN-VIPER-TX-DATA10 3Q53 47R U2 TUN_TX_DATA10
TUN-VIPER-TX-DATA11 3Q55 47R U4 TUN_TX_DATA11
TUN-VIPER-TX-DATA12 3Q57 47R V1 TUN_TX_DATA12
TUN-VIPER-TX-DATA13 3Q59 47R V2 TUN_TX_DATA13
TUN-VIPER-TX-DATA14 3Q61 47R V3 TUN_TX_DATA14
TUN-VIPER-TX-DATA15 3Q63 47R V4 TUN_TX_DATA15

TUN-VIPER-TX-CLKP 3Q66 47R T1 TUN_TX_CLOCKP
TUN-VIPER-TX-CLKN 3Q67 47R T2 TUN_TX_CLOCKN
TUN-VIPER-TX-BUSY W1 TUN_TX_BUSY

VREF-VPR K2 TUN_AVREF
2H01 1n0

TUN_RX_DATA0 G2 TUN-VIPER-RX-DATA0
TUN_RX_DATA1 G1 TUN-VIPER-RX-DATA1
TUN_RX_DATA2 J4 TUN-VIPER-RX-DATA2
TUN_RX_DATA3 J3 TUN-VIPER-RX-DATA3
TUN_RX_DATA4 H1 TUN-VIPER-RX-DATA4
TUN_RX_DATA5 K4 TUN-VIPER-RX-DATA5
TUN_RX_DATA6 J2 TUN-VIPER-RX-DATA6
TUN_RX_DATA7 J1 TUN-VIPER-RX-DATA7
TUN_RX_DATA8 K1 TUN-VIPER-RX-DATA8
TUN_RX_DATA9 L4 TUN-VIPER-RX-DATA9
TUN_RX_DATA10 L2 TUN-VIPER-RX-DATA10
TUN_RX_DATA11 M4 TUN-VIPER-RX-DATA11
TUN_RX_DATA12 M3 TUN-VIPER-RX-DATA12
TUN_RX_DATA13 M2 TUN-VIPER-RX-DATA13
TUN_RX_DATA14 M1 TUN-VIPER-RX-DATA14
TUN_RX_DATA15 N4 TUN-VIPER-RX-DATA15

TUN_RX_CLOCKP K3 RES 3Q65 100R TUN-VIPER-RX-CLKP TUN-VIPER-RX-CLKN
TUN_RX_BUSY N3 3Q68 47R TUN-VIPER-RX-BUSY

+2V5-VPR
IQ35
2H03 1u0 RES
1K0 3H50 100n 2H00 res
IQ39
3Q20 47R
IQ36 1V4 VREF-VPR
1K0 3H51 100n 2H02

2H00 H2 IQ31 F13
2H01 I6 IQ32 F12
2H02 H2 IQ33 F8
2H03 H1 IQ34 F8
2H11 C12 IQ35 H2
2H12 D12 IQ36 H3
2H13 D11 IQ37 F12
2Q25 C11 IQ38 G12
2Q29 B12 IQ39 H2
2Q31 C12
3H02 C8
3H07 E8
3H18 C3
3H19 C9
3H20 D9
3H21 D9
3H28 B3
3H32 B3
3H48 G8
3H49 F9
3H50 H2
3H51 H2
3H92 D11
3Q00 C11
3Q01 D11
3Q02-1 C8
3Q02-2 C9
3Q02-3 C9
3Q02-4 C8
3Q05-1 C8
3Q05-2 C8
3Q05-3 C9
3Q05-4 C8
3Q06 C11
3Q07-1 B8
3Q07-2 B9
3Q07-3 B8
3Q07-4 B8
3Q08-1 B9
3Q08-2 B8
3Q08-3 B8
3Q08-4 B9
3Q09 E8
3Q20 H2
3Q25-1 B8
3Q25-2 B9
3Q25-3 C8
3Q25-4 C9
3Q26-3 A8
3Q26-4 A8
3Q28-1 A8
3Q28-2 A8
3Q28-3 A9
3Q28-4 A8
3Q33 H5
3Q34-1 A9
3Q34-2 A8
3Q34-3 A8
3Q34-4 A9
3Q35 H5
3Q37 H6
3Q38-1 B8
3Q38-2 B8
3Q38-3 B9
3Q38-4 B8
3Q39 H5
3Q41 H5
3Q43 H6
3Q45 H5
3Q47 H5
3Q49 H6
3Q51 H5
3Q53 H5
3Q55 H6
3Q57 H5
3Q59 I5
3Q61 I6
3Q63 I5
3Q65 I9
3Q66 I5
3Q67 I6
3Q68 I8
5Q05 B12
5Q06 C12
7V00-1 A6
7V00-4 G7
9H18 D3
9H19 D3
9H20 B3
9H21 F8
9H26 G8
9H27 G8
9H29 G7
9H32 D3
9H33 D3
9H34 G7
FQ24 B12
FQ25 C12
IH00 E4
IH01 D4
IH03 D4
IH04 E8
IH05 F8
IH06 D9
IH07 C9
IH08 C9
IH10 D4
IH11 D4
IH12 C11
IH13 C11
IH15 D4
IQ00 B11
IQ01 B11
IQ26 D2
IQ29 D2

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SSB: Viper: Supply

2Q00 C10 2Q04 C11 2Q08 C12 2Q12 C13 2Q16 C14 2Q20 E10 2Q24 E11 2Q30 E12 2Q35 E14 2Q39 E14 2Q43 D11 2Q47 D12 2Q51 D13 2Q55 D14 2Q59 D15 2Q63 B8 2Q67 C10 2Q71 E10 2Q75 E10 2Q79 E11 2Q83 E14 5Q04 B10 9H35 F8 IQ09 B8
2Q01 C11 2Q05 C12 2Q09 C13 2Q13 C14 2Q17 C15 2Q21 B8 2Q26 E12 2Q32 E13 2Q36 B9 2Q40 D10 2Q44 D11 2Q48 D12 2Q52 D13 2Q56 D14 2Q60 F10 2Q64 B9 2Q68 C10 2Q72 E10 2Q76 E10 2Q80 E11 5Q01 B8 5Q07 F11 9H36 F8 IQ10 B9
2Q02 C11 2Q06 C12 2Q10 C13 2Q14 C14 2Q18 C15 2Q22 E11 2Q27 E12 2Q33 E13 2Q37 E14 2Q41 B10 2Q45 D12 2Q49 D13 2Q53 D14 2Q57 D15 2Q61 F11 2Q65 B9 2Q69 D10 2Q73 E11 2Q77 E10 2Q81 E12 5Q02 B9 5Q08 F11 IQ07 B9 IQ11 F11
2Q03 E11 2Q07 C12 2Q11 C13 2Q15 C14 2Q19 C15 2Q23 B9 2Q28 E12 2Q34 E13 2Q38 E14 2Q42 D11 2Q46 D12 2Q50 D13 2Q54 D14 2Q58 D15 2Q62 F11 2Q66 B10 2Q70 D10 2Q74 E11 2Q78 E11 2Q82 E13 5Q03 B9 7V00-3 C1 IQ08 C10

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

B7D VIPER: SUPPLY

B7D

A B C D E F

+3V3 +1V2 +1V2 +3V3
3R 3R 3R 3R
5Q01 5Q02 5Q03 5Q04
IQ10
2Q21 10n 2Q63 100n 2Q24 100n 2Q23 10n 2Q36 10n 2Q65 100n 2Q41 10n 2Q66 100n
IQ09 IQ07 IQ08

+1V2 SENSE-1V2-VIPER

+1V2 +3V3 +2V5-VPR

7V00-3
VIPER REV C

SUPPLY

+3V3
2Q67 4u7 2Q00 4u7 6.3V 2Q68 1u 2Q02 4u7 6.3V 2Q01 1u 2Q04 100n 2Q06 100n 2Q07 100n 2Q08 100n 2Q09 100n 2Q10 100n 2Q11 100n 2Q12 100n 2Q13 100n 2Q14 100n 2Q15 100n 2Q16 10n 2Q17 10n 2Q18 10n 2Q19 10n

+2V5-VPR
2Q69 4u7 2Q40 4u7 6.3V 2Q70 1u 2Q42 4u7 6.3V 2Q43 1u 2Q44 100n 2Q45 100n 2Q46 100n 2Q47 100n 2Q48 100n 2Q49 100n 2Q50 100n 2Q51 100n 2Q52 100n 2Q53 100n 2Q54 100n 2Q55 100n 2Q56 10n 2Q57 10n 2Q58 10n 2Q59 10n

+1V2
2Q71 4u7 2Q20 4u7 6.3V 2Q72 1u 2Q22 4u7 6.3V 2Q03 1u 2Q24 100n 2Q26 100n 2Q27 100n 2Q28 100n 2Q30 100n 2Q32 100n 2Q33 100n 2Q34 100n 2Q35 100n 2Q37 100n 2Q38 100n 2Q39 100n

+1V2
2Q75 10n 2Q76 10n 2Q77 1u 2Q78 10n 2Q79 1u 2Q80 10n 2Q73 10n 2Q74 1u 10n 2Q81 1u 330u 6.3V

+1V2 2Q82 1u 220u 25V

+2V5 2Q83 1u 220u 25V

+2V5 9H35 9H36 +2V5D

+2V5 5Q07 220R 5Q08 220R RES IQ11 +2V5-VPR
2Q60 100n 2Q61 1u 2Q62 100p

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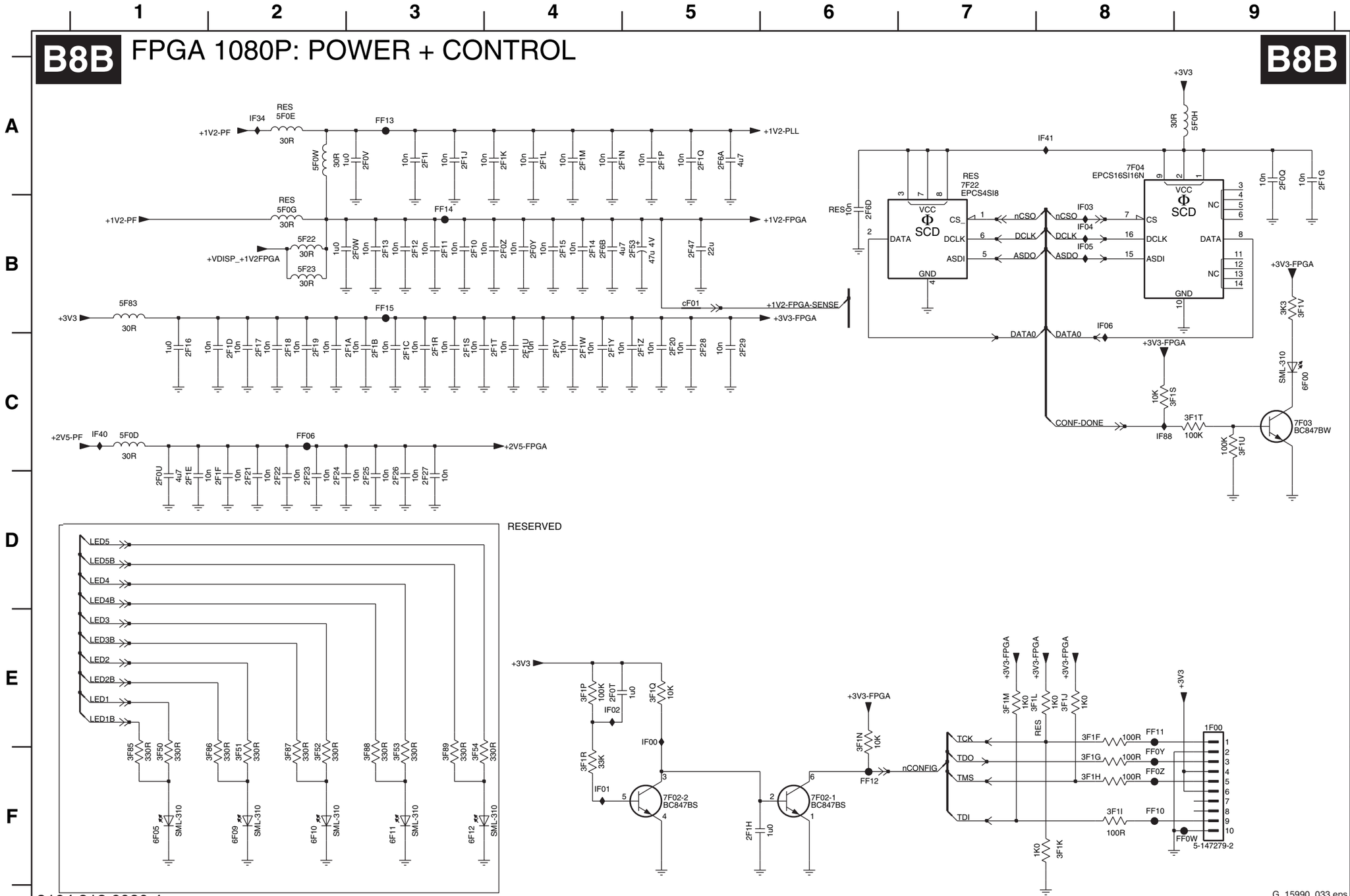
SSB: FPGA 1080P: Power & Control

B8B FPGA 1080P: POWER + CONTROL

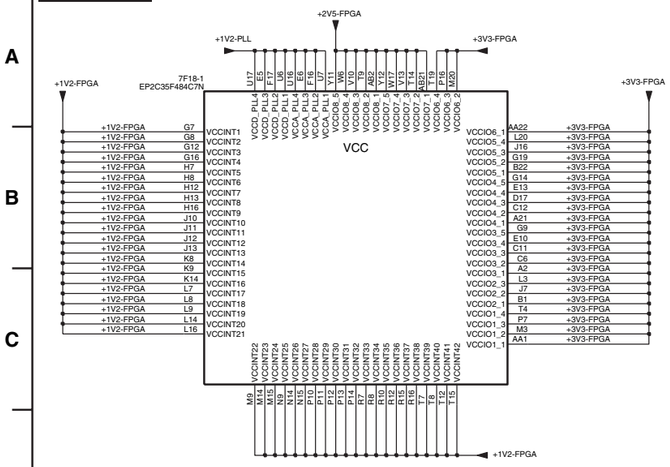


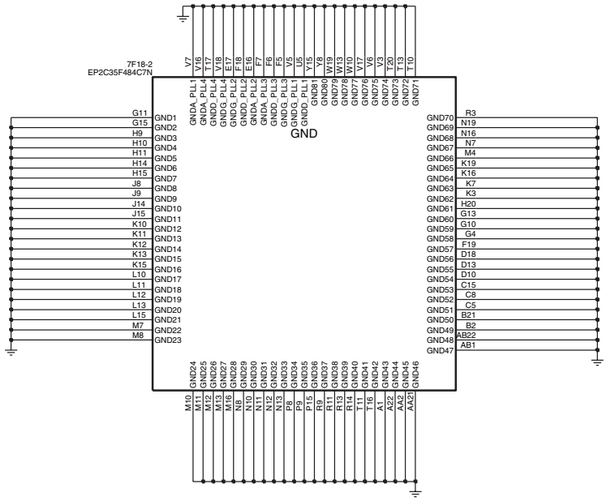
1F00 E9	3F53 F3
2F0Q A9	3F54 F3
2F0T E4	3F85 F1
2F0U D1	3F86 F2
2F0V A3	3F87 F2
2F0W B3	3F88 F3
2F0Y B4	3F89 F3
2F0Z B4	5F0D C1
2F10 B3	5F0E A2
2F11 B3	5F0G B2
2F12 B3	5F0H A9
2F13 B3	5F0W A2
2F14 B4	5F22 B2
2F15 B4	5F23 B2
2F16 C1	5F83 B1
2F17 C2	6F00 C9
2F18 C2	6F05 F1
2F19 C2	6F09 F2
2F1A C3	6F10 F2
2F1B C3	6F11 F3
2F1C C3	6F12 F3
2F1D C2	7F02-1 F6
2F1E D1	7F02-2 F5
2F1F D2	7F03 C9
2F1G A9	7F04 A8
2F1H F5	7F22 A7
2F1I A3	FF06 C2
2F1J A3	FF0W F9
2F1K A4	FF0Y F8
2F1L A4	FF0Z F8
2F1M A4	FF10 F8
2F1N A4	FF11 E8
2F1P A5	FF12 F6
2F1Q A5	FF13 A3
2F1R C3	FF14 B3
2F1S C3	FF15 B3
2F1T C4	IF00 E5
2F1U C4	IF01 F4
2F1V C4	IF02 E4
2F1W C4	IF03 B8
2F1Y C4	IF04 B8
2F1Z C5	IF05 B8
2F20 C5	IF06 B8
2F21 D2	IF34 A2
2F22 D2	IF40 C1
2F23 D2	IF41 A8
2F24 D2	IF88 C8
2F25 D3	cF01 B5
2F26 D3	
2F27 D3	
2F28 C5	
2F29 C5	
2F47 B5	
2F53 B5	
2F6A A5	
2F6B B4	
2F6D B6	
3F1F E8	
3F1G F8	
3F1H F8	
3F1I F8	
3F1J E8	
3F1K F8	
3F1L E7	
3F1M E7	
3F1N E6	
3F1P E4	
3F1Q E5	
3F1R F4	
3F1S C8	
3F1T C9	
3F1U C9	
3F1V B9	
3F50 F1	
3F51 F2	
3F52 F2	

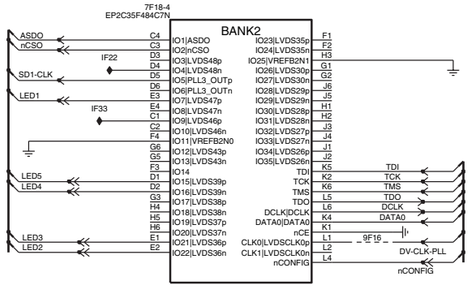
SSB: FPGA 1080P: I/O Banks

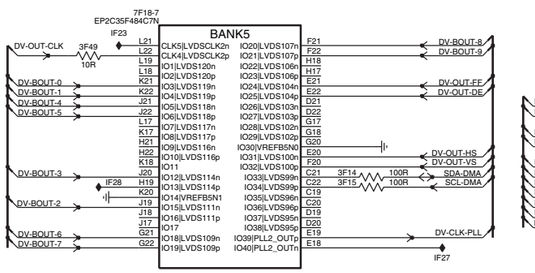
B8C FPGA 1080P: I/O BANKS

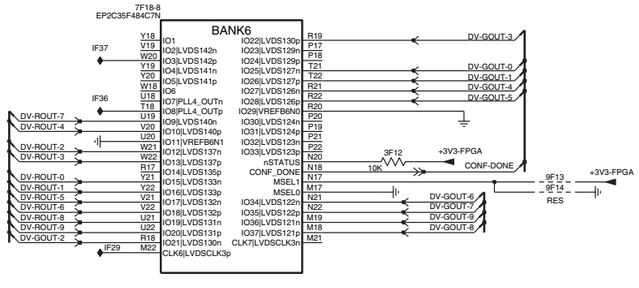
B8C

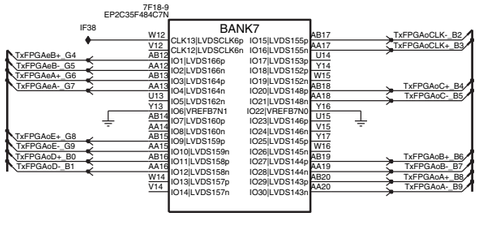


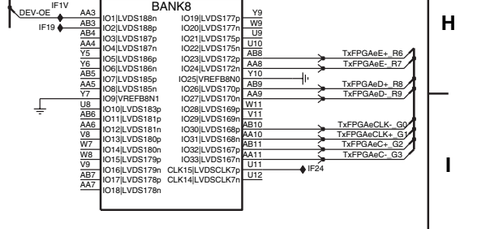












3F12 H7
3F14 I3
3F15 I3
3F16 E1
3F3E F3
3F41 F3
3F49 H1
3F55 F14
7F18-1 A2
7F18-10 H13
7F18-2 A7
7F18-3 E2
7F18-4 E6
7F18-5 E9
7F18-6 E13
7F18-7 H2
7F18-8 G5
7F18-9 H10
9F13 I8
9F14 I8
9F15 E9
9F16 F7
IF19 H1
IF1V H13
IF1W F11
IF22 E5
IF23 H1
IF24 I1
IF25 E9
IF26 F4
IF27 I4
IF28 I1
IF29 I5
IF30 F12
IF31 E12
IF33 E5
IF36 H5
IF37 H5
IF38 H9
IF50 F3
IF53 F3

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SSB: Display Interfacing

B8D DISPLAY-INTERFACING

B8D

VDISP-SWITCH

I2C-BUFFER *

RESERVED

NOTE : CAN BE CAPACITOR OR WIRE BRIDGE

FHP	SDI
IRQ	RESET
PDWN	
CPU-GO	
PDP-GO	

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2F2A E5	7F58-2 F12
2F2B E3	7F64 E12
2F2C B10	9F18 B8
2F2D A10	9F21 B8
2F2E H5	9F2F C9
2F2F H5	9F2G C9
2F2G H5	9F2H A10
2F2H H5	9F2I C3
2F2I C5	9F2J E13
2F2J E5	9F2K D11
2F2K B12	9F2N I1
2F2L B12	9F2P I1
2F2M E13	9F2R G13
2F2N E12	9F2S H13
2F2P H12	FF17 G6
2F2Q I12	FF18 G6
2F43 H12	FF19 G6
2F44 G12	FF1A G6
2F5D D11	FF1B C5
3F1W D3	IF07 E3
3F1Y E3	IF08 D4
3F1Z E5	IF09 E5
3F20 H4	IF0A E4
3F21 E5	IF0B A9
3F22 E2	IF0C B10
3F23 B10	IF0D B11
3F24 B10	IF0E A11
3F25 G5	IF0F D5
3F26 H3	IF0G F4
3F27 G3	IF0H E3
3F28 G3	IF0S B8
3F29 G3	IF0T B8
3F2A G5	IF0U I4
3F2B G5	IF0W D6
3F2C G5	IF0Z D13
3F2D D5	IF10 D12
3F2E D5	IF11 D11
3F2F G3	IF12 D11
3F2G H3	IF13 D13
3F2H H3	IF14 E14
3F2I F3	IF15 D11
3F2J F3	IF16 D12
3F2K H3	IF17 C11
3F2L H3	IF18 H13
3F2M I3	IF1A I1
3F2N I3	IF1B I1
3F2Q I3	IF1C I1
3F2R I4	IF1D I1
3F2S B12	IF2K G13
3F2T B11	IF2L G12
3F2U F3	IF2M G13
3F2V F4	IF2N H13
3F2W D11	IF2P H12
3F2Y D12	IF2Q H13
3F2Z E14	IF42 F2
3F30 E13	IF43 F2
3F31 D12	IF51 I1
3F32 C11	IF55 G1
3F33 C11	IF56 H1
3F34 E12	IF57 H1
3F35 D12	IF58 H1
3F36 D13	IF59 H1
3F37 I13	IF60 I1
3F38 I13	IF65 G1
3F39 H12	IF66 G1
3F3A I12	IF67 G1
3F3B I12	IF68 G1
3F3C I12	
3F4J H13	
3F4K G13	
3F4L G12	
3F4M H12	
3F4R E10	
3F58 F11	
3F59 F12	
3F64 F10	
5F0I A9	
5F0J A9	
5F0K B5	
5F0L C5	
5F0M C5	
5F0U B5	
5F0V C5	
6F01 D5	
6F02 E3	
6F04-1 A11	
6F04-2 A12	
7F05 D4	
7F06 E4	
7F07 I4	
7F08-1 D14	
7F08-2 D13	
7F09-1 H13	
7F09-2 I13	
7F10 B9	
7F11 C11	
7F12 D12	
7F21-1 G13	
7F21-2 H13	
7F25 C3	
7F58-1 F11	

SSB: Pacific 3

B8E PACIFIC 3

B8E

+2V5-PF 5F0R 600R FF1F +2V5-P3
+2V5-PF 5F0S 600R FF1G +2V5-PLL
2F4A 1u0 2F4J 10n 2F4L 10n
2F4B 1u0 2F4M 10n 2F4N 10n

+3V3 5F0P 120R FF1C +3V3-P3
2F5R 1u0
2F51 10n 2F52 10n 2F4J 1u0 2F53 10n 2F54 10n 2F55 10n 2F56 10n 2F57 10n 2F58 10n 2F59 10n 2F3A 10n 2F5B 10n 2F5C 10n

+1V5-P3-FPGA 5F0N 220R FF1D +1V5-P3
IF1M
2F5G 4u7 2F4P 10n 2F3H 1u0 2F3I 10n 2F5J 10n 2F3K 10n 2F3M 10n

5F0Q 220R FF1E +1V5-PLL
2F4R 1u0 2F4T 1u0 2F49 10n

5F11 220R +1V5-TX
2F3S 1u0 2F3T 10n 2F5Q 10n 2F5R 10n 2F4Q 10n
GND-TX GND-TX GND-TX GND-TX GND-TX

5F10 220R +1V5-RX
2F30 1u0 2F3L 10n 2F3N 10n 2F3P 10n
GND-RX GND-RX GND-RX GND-RX

+3V3-P3 3F3L 100K
2F4C 1u0
FF07
3F19 100R RES BACKLIGHT-CONTROL_RESET-P3
9F29 RES
BACKLIGHT-CONTROL

+3V3-P3 2F4D 10n
3F4Q 4K7 3F4P 4K7 3F4N 4K7
IF2C 60R 1U1 3F4B 47R 3F4A 1M0 IF2D

7F13 M25P05-AVMN6
8 VCC 512K FLASH 4 VSS
2 Q 5 D 6 C 1 S 3 W 7 HOLD
FF08 FF09 FF16 FF20 FF23 FF21
100R 3F3M RES
100R 3F3N RES

7F16-2 T6TF4HFG-0002 MISC
IF2D 165 OSC_Z
164 OSC_CLK_I
172 RSTN
193 SI
191 SCK
192 SO
194 CS
JTAG-TD-P3-SPIDER RXP3VS 3F57 3F3K 1K0 FF1I
+3V3 10K 3F4C
JTAG-TCK
JTAG-TD-VIPER-P3 3F4D 100R
JTAG-TD-P3-SPIDER 100R 3F56 205
JTAG-TMS 3F4F 100R 1
JTAG-TRST 100R 3F4E 2
IF2F
RES 0F17
JTAG-TD-VIPER-P3
4 VSI
173 T1
207 TCK
3 TDI
205 TDO
1 TMS
2 TRST
206 TRIGOUT
IF20 177 MINTN
+3V3-P3 3F13 4K7 CTRL4-P3 178 00
179 01
183 02
RXP3FF 185 03 GPIO
187 04
188 05
SDA-DMA 100R 3F3P IF1S 198 MSDA
SCL-DMA 200 MSCL
3F3Q 100R IF1T
FF27 202 SSDA
FF28 IF2J 204 SSCL
114 DEO
CLKO 109 IF62
VSO 115 IF63
HSO 116 IF64
PWM 168 169 170
RES 3F17 4K7 RES
3F44 4K7
PD 117 120 121 122 123 126 127 128 129 132
3F18 4K7 3F4I 4K7
3F4H 4K7
PE 133 134 135 137 139 140 141
A<19:0> 143 IF2G
RXD 145 IF2H
TXD 146 IF2I
PE<7:9> 148 149 151 153 154 155 159 160 161 162
PSEN WRN
PF<0:9>

0F30 RES 0F31 RES 0F32 RES 0F33 RES 0F34 RES 0F35 RES
HOLD 0F53 WRITE 0F52 CSCB 0F51 CCLK 0F39 MOSI 0F38 MISO

7F16-3 T6TF4HFG-0002
+2V5-PLL 54 212 PLL2_VCCA_2V5 PLL1_VCCA_2V5
+1V5-PLL 58 PLL2_VCCD_1V5 56 214 PLL1_VCCD_1V5
210 201 196 184 180 174 167 VDD_3V3
150 144 138 130 124 118 113 110
+3V3-P3
+2V5-P3 166 6 VDD_2V5
209 197 190 182 176 156 147 136 119 111 105 94 85 72 65 43 39 33 24 21 12 VDD_1V5
+1V5-P3
SUPPLY
GND_HS 242
241 240 239 238 237 236 235 234 233 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 VIA
199 216 211 208 203 195 189 186 181 175 171 163 157 152 142 131 125 112 108 5 GND
SSCG_GND 59
PLL2_GNDA 55
PLL1_GNDA 213
PLL2_GNDD 57
PLL1_GNDD 215

+1V5-RX +1V5-TX +3V3-P3
7F16-1 T6TF4HFG-0002
11 42 43 63 79 91 18 50 64 78 104
CLKI HSI VDD_RX_1V5 VDD_TX_1V5 VDD_RX_3V3 VDD_TX_3V3
LVDS
RXP3CLK 7
RXP3HS_DE 8
RXP3OA- B9 9
RXP3OA+ B8 10 ORX0
RXP3OB- B7 13
RXP3OB+ B6 14 ORX1
RXP3OC- B5 15
RXP3OC+ B4 16 ORX2
RXP3OCLK- B2 20
RXP3OCLK+ B3 19 OCLK
RXP3OD- B1 22
RXP3OD+ B0 23 ORX3
B<9:0>
RXP3OE- G9 25
RXP3OE+ G8 26 ORX4
RXP3EA- G7 28
RXP3EA+ G6 29 ERX0
RXP3EB- G5 31
RXP3EB+ G4 32 ERX1
RXP3EC- G3 34
RXP3EC+ G2 35 ERX2
RXP3ECLK- G0 38
RXP3ECLK+ G1 37 ECLK
G<9:0>
RXP3ED- R9 40
RXP3ED+ R8 41 ERX3
RXP3EE- R7 44
RXP3EE+ R6 45 ERX4
RXP3R5 46
RXP3R4 47
RXP3R3 48
RXP3R2 49
RXP3R1 52
RXP3R0 53
R<9:0>
GND 17 27 36 45 60 71 76 85 97
GND-RX GND-TX

PWM 61 62 66 67 68 69
OTX0 74 75 TXEA+ TXEA-
OTX1 77 78 TXEB+ TXEB-
PA<0:9> 80 81 TXEC+ TXEC-
OTX2 83 84 TXECLK+ TXECLK-
OTX3 86 87 TXED+ TXED-
OTX4 89 90 TXEE+ TXEE-
OTX5 92 93 TXOA+ TXOA-
ETX0 95 96 TXOB+ TXOB-
PB<0:9> 98 99 TXOC+ TXOC-
ETX1 100 101 TXOCLK+ TXOCLK-
ETX2 102 103 TXOD+ TXOD-
ETX3 106 107 TXOE+ TXOE-
ETX4
ETX5
PC<0:9>

6F03 BAV70W
6F06 BAV70W
6F07 BAV70W
3F94 4K7

*
+3V3
2F46 1u 100n
PWM-3 PWM-3 IF44 BAS316 6F08 3F90 2K2 2F42 10n FF49 FF50
PWM-OR PWM-OR 3F91 1K0 IF54
+3V3 RES 3F95 4K7 FF22
RES 3F96 4K7
+3V3 RES 3F97 4K7 IF77
RES 3F98 4K7
IF21
7F20 P87LPC760BDH
VDD
MICROCONTROLLER
TXD RXD SCL T0 INT0 SDA P1.5 P1.7 RST
P1<0:3> P2<0:1>
VSS
CIN1B CIN1A CMPREF CMP1 P0<3:6> CLKOUT X2 X1
3F93 100R 3F92 100R FF25 FF24 FF26
SDA-AMBI-3V3 SCL-AMBI-3V3
9F11
1F03 10M
2F41 10p RES 2F45 10p RES

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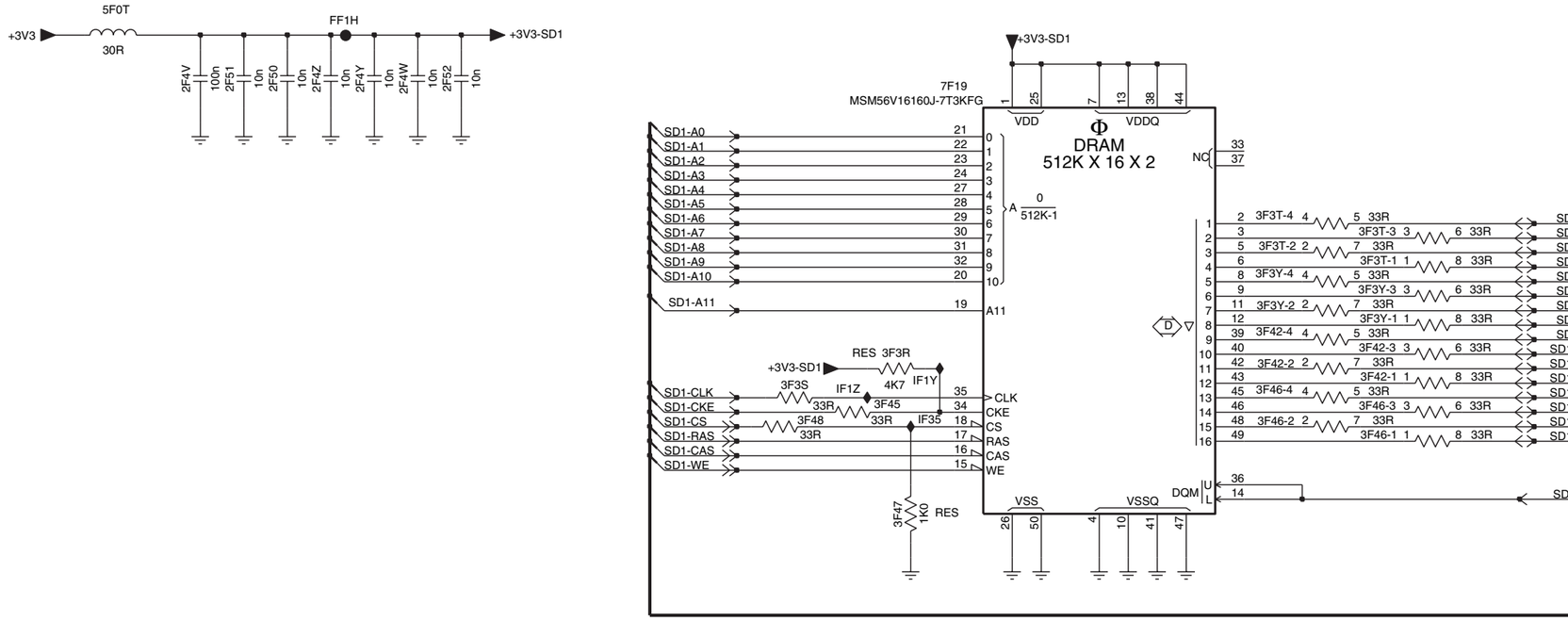
1 2 3 4 5 6 7 8 9 10 11 12 13 14

1F01 B11 9F32 E9
1F03 H13 9F33 E9
2F2R A3 9F34 E10
2F30 E5 9F35 E10
2F31 A3 9F38 E10
2F32 A4 9F39 E10
2F33 A4 9F52 E9
2F34 A4 9F53 E9
2F35 A4 FF07 B11
2F36 A5 FF08 C11
2F37 A5 FF09 C10
2F38 A5 FF16 C10
2F39 A5 FF1C A3
2F3A A6 FF1D B5
2F3B A6 FF1E C5
2F3C A6 FF1F A8
2F3G C5 FF1G A10
2F3H C5 FF1I C12
2F3I C5 FF20 C10
2F3J C6 FF21 D9
2F3K C6 FF22 H10
2F3L E5 FF23 C9
2F3M C6 FF24 H12
2F3N E6 FF25 H12
2F3P E6 FF26 H12
2F3Q D6 FF27 E11
2F3R D6 FF28 E11
2F3S D5 FF49 G10
2F3T D5 FF50 H10
2F41 H12 IF1M B4
2F42 H10 IF1S E12
2F45 H13 IF1T E12
2F46 G11 IF20 D11
2F48 C5 IF21 H8
2F49 C5 IF2C B11
2F4A A7 IF2D C12
2F4B A9 IF2F D12
2F4C B10 IF2G E13
2F4D B9 IF2H E13
2F4J A4 IF2I E13
2F4K A8 IF2J E12
2F4L A8 IF44 G9
2F4M A9 IF54 H10
2F4N A10 IF62 C13
2F4P C5 IF63 C13
2F4Q D6 IF64 C13
2F4T C5 IF77 I10
3F13 D10
3F17 C14
3F18 C13
3F19 B13
3F3K C11
3F3L A10
3F3M C9
3F3N D9
3F3P E12
3F3Q E12
3F44 C13
3F4A B12
3F4B B12
3F4C D11
3F4D D11
3F4E D12
3F4F D11
3F4H D13
3F4I D14
3F4N B9
3F4P B9
3F4Q B9
3F56 D12
3F57 C11
3F90 G10
3F91 H10
3F92 H13
3F93 H12
3F94 I8
3F95 H10
3F96 H10
3F97 I10
3F98 I10
5F0N B5
5F0P A3
5F0Q C5
5F0R A7
5F0S A9
5F10 D5
5F11 D5
6F03 G8
6F06 G8
6F07 H8
6F08 G10
7F13 D8
7F16-1 E4
7F16-2 B12
7F16-3 E1
7F20 G12
9F11 H12
9F17 D10
9F29 B14
9F30 E9
9F31 E9

SSB: FPGA 1080P: SD-RAM

B8F FPGA 1080P: SD-RAM

B8F



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SSB: FPGA Ambilight

B8G FPGA AMBILIGHT

B8G

MO = HIGH -> SPI-flash
MO = LOW -> Xilinx-flash

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2F0R E6 IF45 H3
2F0S E5 IF46 H3
2F40 D3 IF47 H3
2F54 E6 IF48 F4
2F55 C2 IF52 A5
2F57 E4 IF61 D6
2F58 F1 IF69 H4
2F59 F2 IF70 C11
2F60 A2 IF71 G9
2F61 A2 IF72 G9
2F62 A2 IF73 H9
2F63 A2 IF74 C5
2F64 A3 IF75 G12
2F65 A3 IF76 D2
2F66 A3
2F67 A3
2F68 F3
2F69 A4
2F70 F4
2F72 C3
2F73 C3
2F74 B2
2F75 B2
2F77 C4
2F78 B3
2F79 B3
2F80 B3
2F81 B4
2F82 C2
2F83 C2
2F84 A2
2F85 C4
3F3G A5
3F40 D2
3F43 A7
3F60 D2
3F61 I10
3F62 I10
3F63 H10
3F65 F2
3F66 E4
3F67 F2
3F68 F4
3F69 F1
3F6B D1
3F6D D3
3F6E F4
3F70 G3
3F71 G3
3F72 G4
3F73 F2
3F74 H2
3F75 H4
3F76 H2
3F77 H1
3F78 H1
3F79 H2
3F80 G1
3F81 I3
3F82 H3
3F83 G2
3F84 G2
3F99 D2
5F30 C2
5F60 A1
5F61 B1
5F62 B1
6F62 G1
7F01 D5
7F30 D2
7F60 F4
7F62 G2
7F65-1 F6
7F65-2 A6
7F65-3 A9
7F65-4 E11
7F65-5 A12
9F36 D1
9F37 D1
9F40 F4
9F41 B7
9F42 F10
9F43 I9
9F44 F12
9F45 F13
9F46 F13
9F47 I10
9F48 F12
9F49 F12
9F50 F12
9F51 G12
FF60 A3
FF61 B3
FF62 B3
FF63 D1
FF64 D1
FF65 D1
FF66 D1
FF67 E1
FF68 D3

SSB: HDMI

B9A HDMI

B9A

DDC NVM
HDMI 1

DDC NVM
HDMI 2

1B00 A3
1B01 A1
1B02 D7
1B03 A3
1B04 A3
1B05 A9
1B06 A10
1B07 A10
1B20 D4
1B21 F11
2B00 A3
2B01 A4
2B04 A10
2B05 A11
2BA0 D5
2BA1 D4
2BA2 F11
2BA3 F10
3B02 A5
3B03 B6
3B04 B5
3B05 B5
3B06 B5
3B07 B5
3B08 B5
3B14 A12
3B15 B13
3B16 B11
3B17 B12
3B18 B12
3B19 B11
3B20 B12
3B23 D3
3B24 F9
3B82 D6
3B83 F12
3B90 D4
3B91 D4
3B92 F10
3B93 F10
5B00 A4
5B01 A10
6B20 D4
6B21 D3
6B22 F10
6B23 F10
7B02 B4
7B03 B10
7B30 D4
7B31 F11
9B00 B2
9B03 E8
FB09 B1
FB10 B1
FB11 B2
FB12 B1
FB13 B2
FB14 B1
FB28 E8
FB29 E8
FB30 E8
FB31 E8
FB32 E8
FB34 B11
FB35 B5
FB36 E8
IB11 B12
IB13 A11
IB19 A4
IB26 B5
IB50 F11
IB51 D5
IB61 F11
IB62 D4

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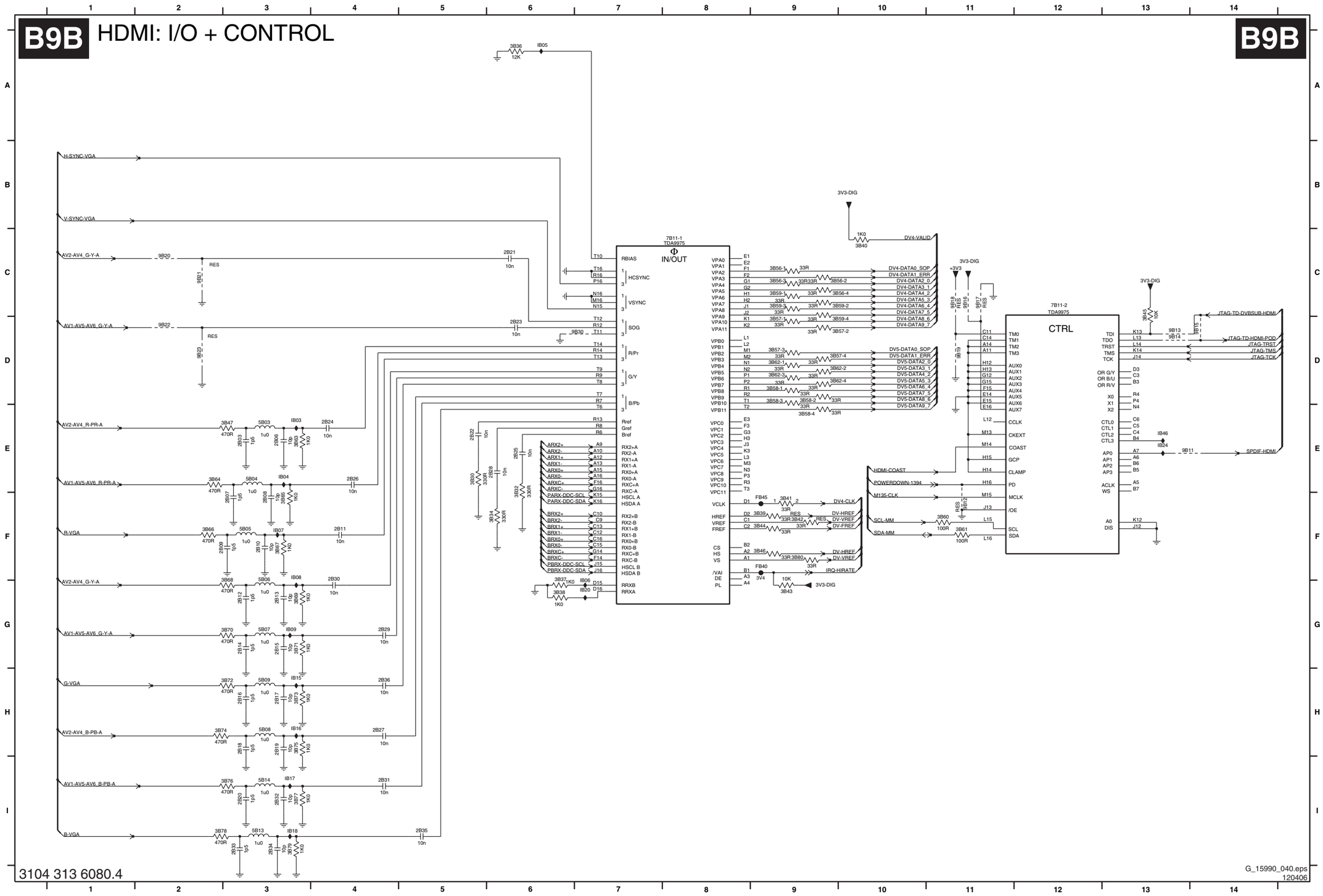
SSB: HDMI: I/O Control

B9B HDMI: I/O + CONTROL

B9B



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SSB: HDMI: Supply

B9C HDMI: SUPPLY

B9C

+3V3 — 5B17 220R — FB57 — 3V3-APLL
2B52 100n
3V3-AVI — 2B40 100n, 2B41 100n, 2B42 100n

+3V3-AV — 5B10 220R — FB50 — 3V3-AVI
2B67 47u 4V

+3V3 — 5B11 220R — FB51 — 3V3-PLL
2B69 100n
3V3-DIG — 2B49 100n, 2B51 100n, 2B53 100n

+3V3 — 5B12 220R — FB52 — 3V3-DIG
3V3-DIG — 2B62 100n, 2B64 100n

+1V8 — 2B79 100n
+1V8 — 2B80 100n, 2B81 100n

+3V3
3B52 330R
3B53 3R3
IB47
IB48
7B13 BC817-25
IB44
7B12 TS431L (K, A, NC, NC, REF; pins 1, 2, 3, 4, 5)
2B89 10n
IB49
3B50 470R
3B51 4R7
3B48 1K0
3B49 47K
2B90 47u 4V
FB55 — +1V8
FB56 — 1V8-PLL
5B18 120R
2B77 100n
2B92 100n

+5V — 3 — 7B06 LD1117DT33 (IN, OUT, COM) — 2 — FB15 — +3V3-AV
2B38 1u0
2B39 330u 6.3V

7B11-3 TDA9975

HDMI SUPPLY PART

3V3-APLL, 1V8-PLL	N7, M7	VDDAPLL, VDD18APLL
	M11, N11	VDDR
	M10, N10	VDDG
3V3-AVI	M9, N9	VDDB
	P10	VDDBIAS
	P11	VDDSOG
	N12	VDDFRO
3V3-PLL, 1V8-PLL	N13, N14	VDDPLL, VDD18PLL
+1V8	E12, E13	VDD18HDMI, VDD18RRX
3V3-DIG	D8, D9, D10, D11, D12, D13, D14	VDDRX2A, VDDRX2B, VDDRX1A, VDDRX1B, VDDRX0A, VDDRX0B, VDDRXC
+1V8	G13, E6	1, 2 VDD18CORE
IB45	T4	OTP7V
	F13	VDDIN
3V3-DIG	D4, E4, F4, G4, H4, J4, K4, L4, M4	VDDQ0, VDDQ1, VDDQ3, VDDQ4, VDDQ5, VDDQ6, VDDQ7, VDDQ8, VDDQ9

GNDAVI	M5, N5, P5, R5, T5, M8, N8, P6, P7, P8, P9, R10, R11, M12, P12, P13, P14, P15, R15, T15
GNDAPLL	M6, N6
GNDHDMI	A8, B8, C8, B9, B10, B11, B12, B13, B14, B15, B16
GNDCORE	E7, E8, E9, E10, E11
GNDI2C	F12
GNDOUT	C7, D6, D7, E5, F5, D5, G5, J5, K5, L5, H5

THERMAL GROUNDS: F6, G6, H6, J6, K6, L6, F7, G7, H7, J7, K7, L7, F8, G8, H8, J8, K8, L8, F9, G9, H9, J9, K9, L9, F10, G10, H10, J10, K10, L10, F11, G11, H11, J11, K11, L11

2B38 F5
2B39 F6
2B40 A3
2B41 A3
2B42 A4
2B49 C3
2B51 C3
2B52 A2
2B53 C4
2B62 D3
2B64 D4
2B67 B1
2B69 C2
2B77 F4
2B79 C5
2B80 C5
2B81 C5
2B89 E1
2B90 F2
2B92 F4
3B48 F1
3B49 F1
3B50 E2
3B51 E2
3B52 D1
3B53 D2
5B10 B1
5B11 C1
5B12 C1
5B17 A1
5B18 F3
7B06 F5
7B11-3 A8
7B12 E1
7B13 E2
FB15 F6
FB50 B2
FB51 C2
FB52 C2
FB55 E4
FB56 E4
FB57 A2
IB44 E2
IB45 D6
IB47 D2
IB48 E1
IB49 E2

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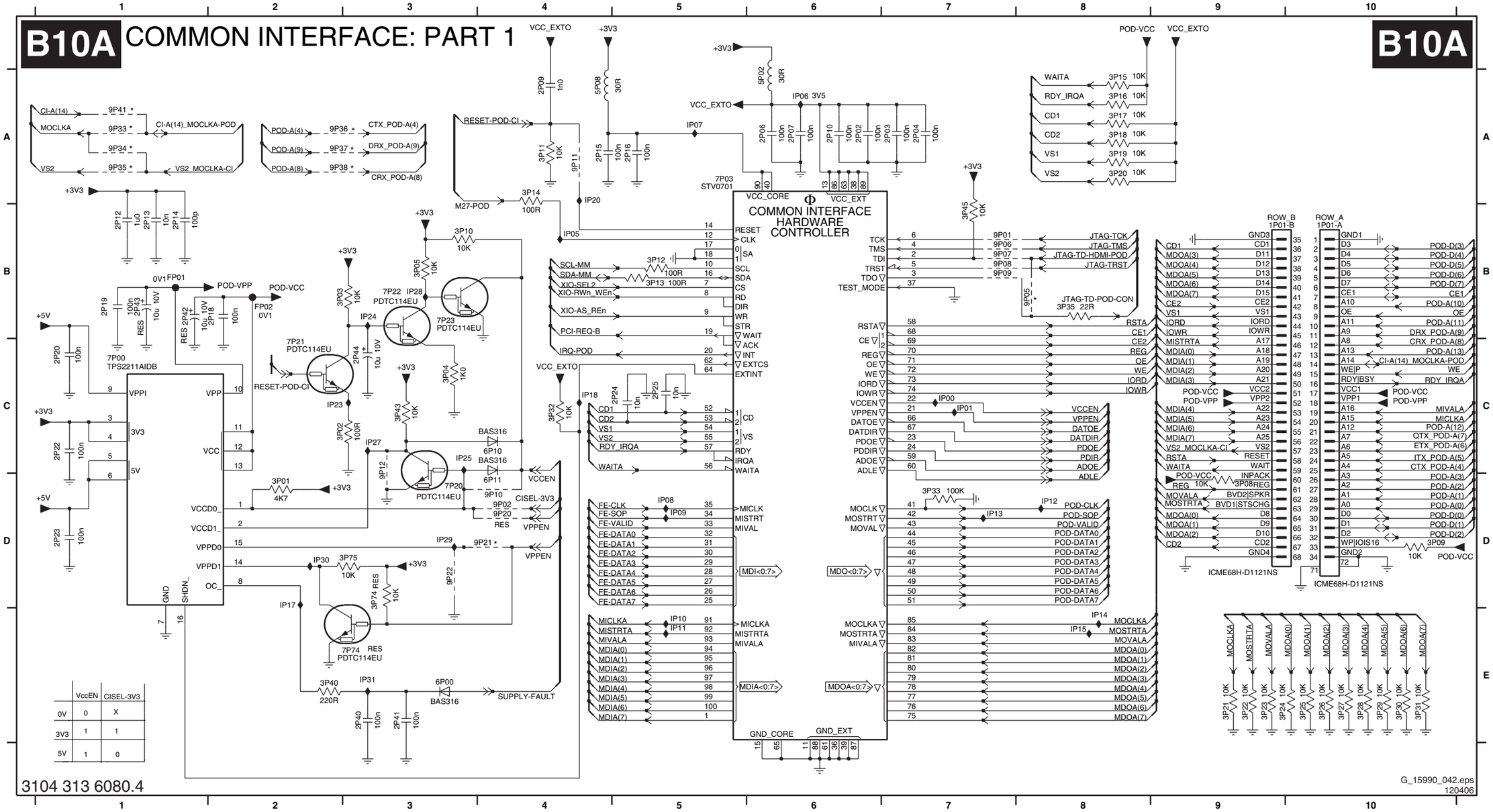
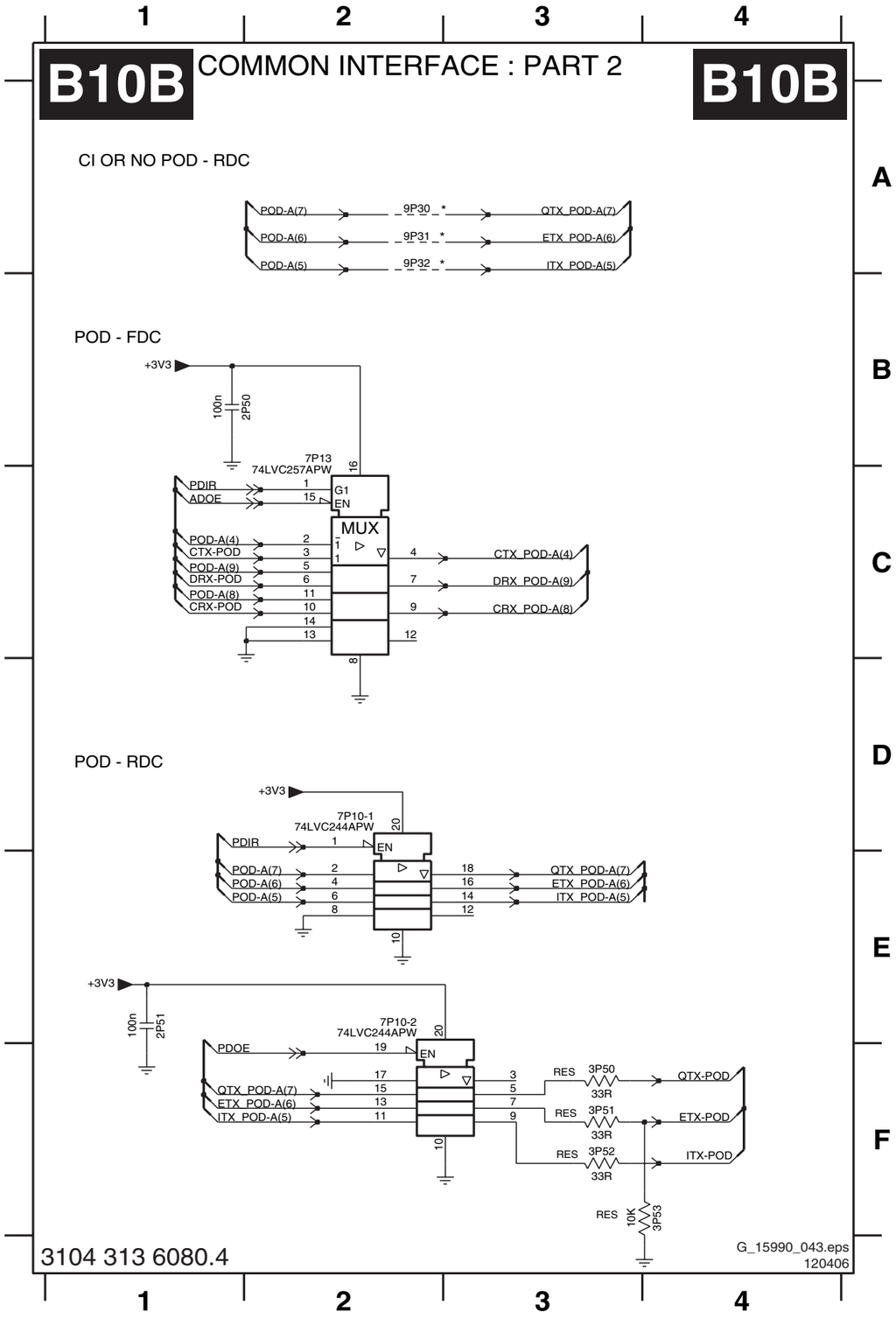
SSB: Common Interface: Part 1

1P01-A B10	2P09 A4	2P18 B2	2P40 E3	3P03 B2	3P12 B5	3P19 A8	3P26 E10	3P33 D7	5P02 A6	7P20 D3	9P05 B8	9P12 C3	9P36 A2	IP01 C7	IP11 E5	IP20 A4	IP30 D2
1P01-B B9	2P10 A6	2P19 B1	2P41 E3	3P04 C3	3P13 B5	3P20 A8	3P27 E10	3P35 B8	5P08 A4	7P21 C2	9P06 B7	9P20 D4	9P37 A2	IP05 B4	IP12 D8	IP23 C2	IP31 E3
2P02 A6	2P12 B1	2P20 C1	2P42 B1	3P05 B3	3P14 A4	3P21 E9	3P28 E10	3P40 E2	6P00 E3	7P22 B3	9P07 B7	9P21 D4	9P38 A2	IP06 A6	IP13 D7	IP24 B3	
2P03 A7	2P13 B1	2P22 C1	2P43 B1	3P08 D9	3P15 A8	3P22 E9	3P29 E10	3P43 C3	6P10 C4	7P23 B3	9P08 B7	9P22 D3	9P41 A1	IP07 A5	IP14 E8	IP25 C3	
2P04 A7	2P14 B1	2P23 D1	2P44 C3	3P09 D10	3P16 A8	3P23 E9	3P30 E10	3P45 B7	6P11 D4	7P74 E3	9P09 B7	9P33 A1	FP01 B1	IP08 D5	IP15 E8	IP27 C3	
2P06 A6	2P15 A4	2P24 C4	3P01 D2	3P10 B3	3P17 A8	3P24 E9	3P31 E10	3P74 D3	7P00 C1	9P01 B7	9P10 D4	9P34 A1	FP02 B2	IP09 D5	IP17 D2	IP28 B3	
2P07 A6	2P16 A5	2P25 C5	3P02 C2	3P11 A4	3P18 A8	3P25 E10	3P32 C4	3P75 D3	7P03 A5	9P02 D4	9P11 A4	9P35 A1	IP00 C7	IP10 E5	IP18 C4	IP29 D3	



SSB: Common Interface: Part 2



Personal Notes:

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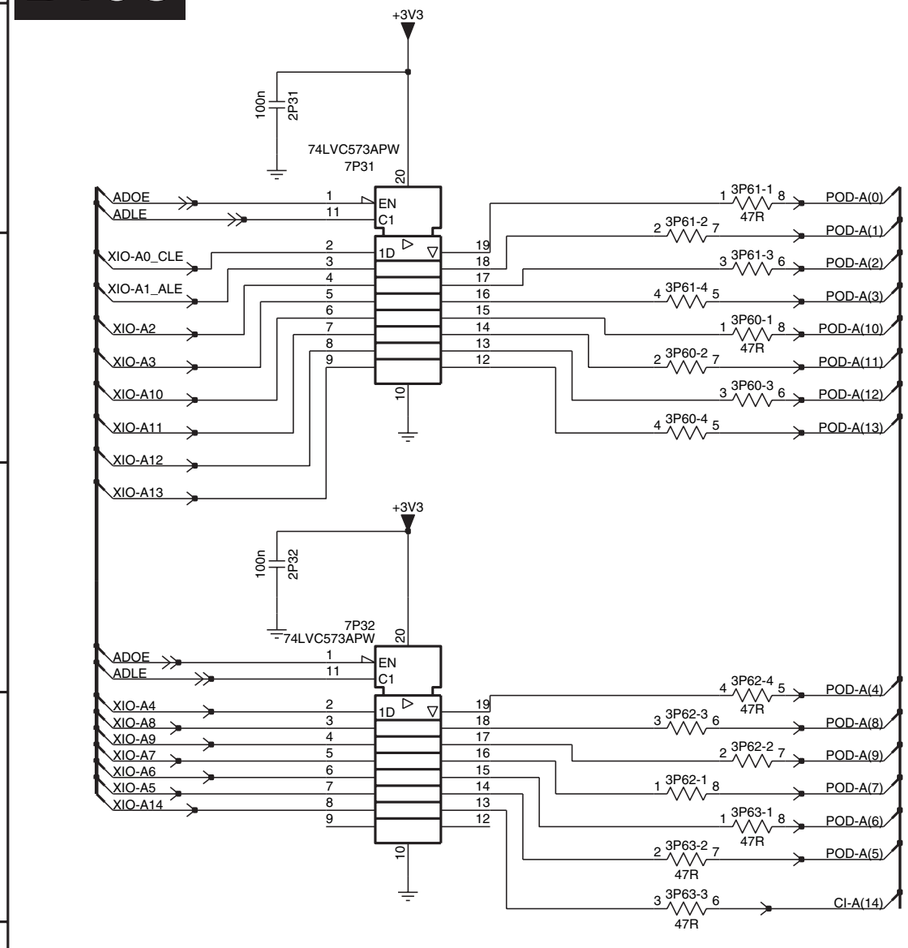
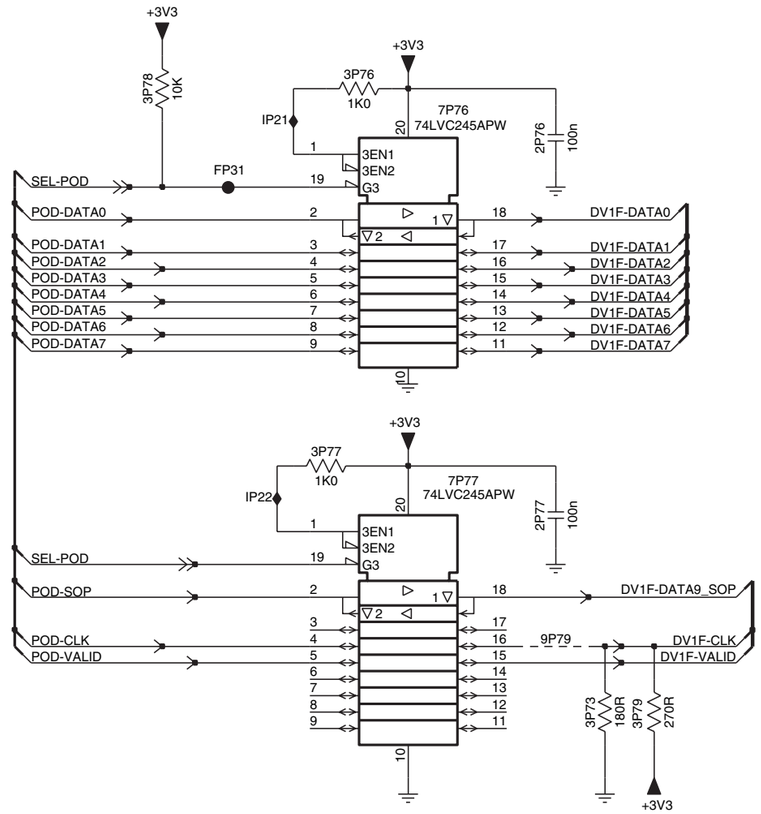
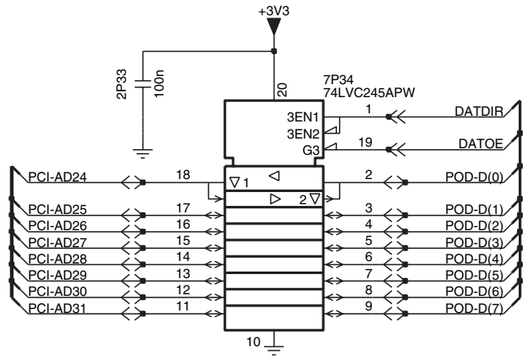
SSB: Common Interface: Part 3

B10C COMMON INTERFACE: PART 3

B10C







2P31 A2
2P32 C2
2P33 E2
2P76 B7
2P77 C7
3P60-1 B4
3P60-2 B3
3P60-3 B4
3P60-4 B3
3P61-1 A4
3P61-2 A3
3P61-3 B4
3P61-4 B3
3P62-1 D3
3P62-2 D4
3P62-3 D3
3P62-4 C4
3P63-1 D4
3P63-2 D3
3P63-3 D3
3P73 D8
3P76 A7
3P77 C7
3P78 A6
3P79 D8
7P31 A2
7P32 C2
7P34 E2
7P76 B7
7P77 C7
9P79 D8
FP31 B6
IP21 B6
IP22 C6

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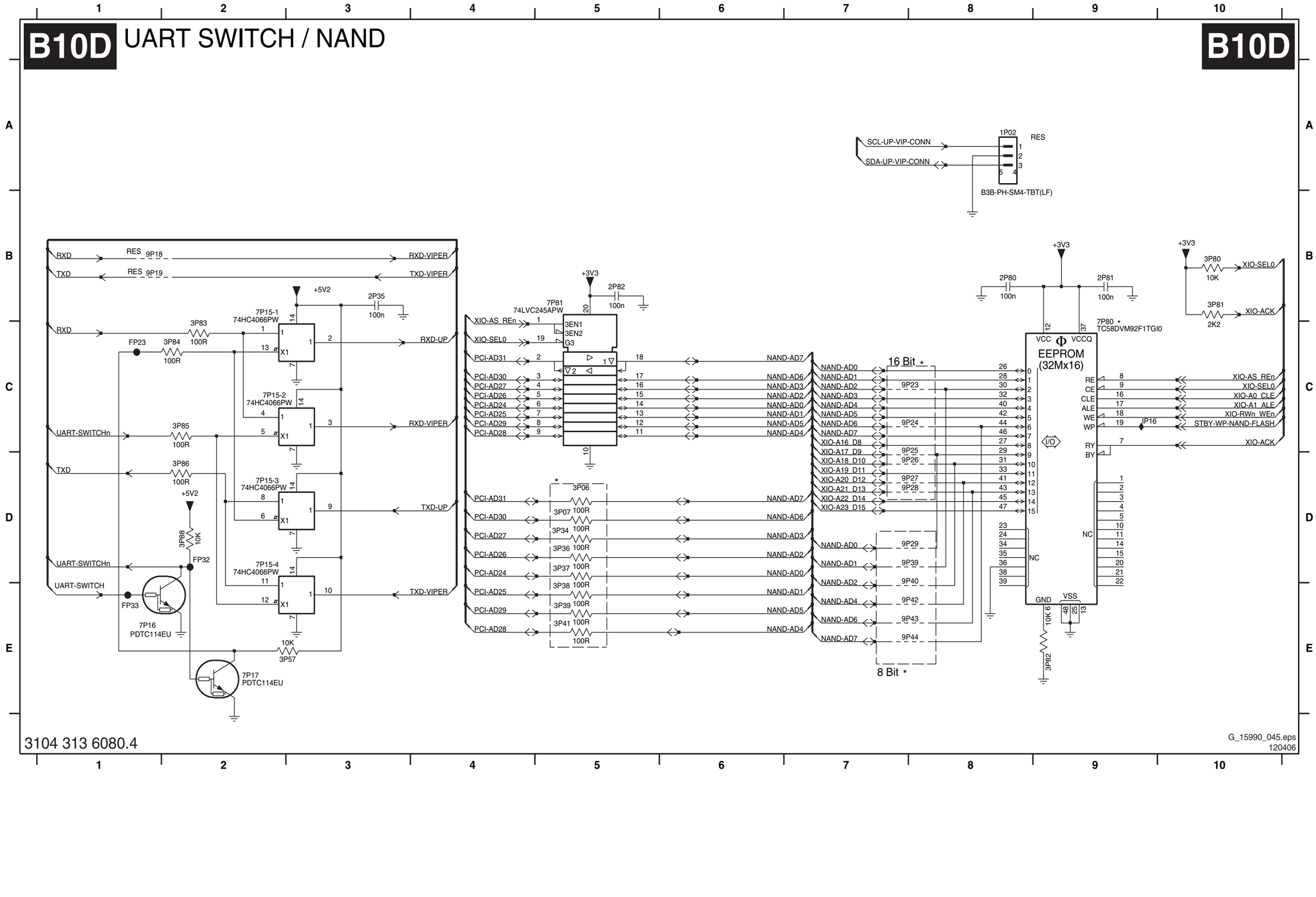
SSB: UART Switch / NAND

1P02 A8	2P81 B9	3P07 D5	3P37 D5	3P41 E5	3P81 B10	3P84 C2	3P88 D2	7P15-3 D2	7P17 E2	9P18 B1	9P24 C8	9P27 D8	9P39 D8	9P43 E8	FP32 D2
2P35 B3	2P82 B5	3P34 D5	3P38 E5	3P57 E3	3P82 E9	3P85 C2	7P15-1 B2	7P15-4 D2	7P80 C9	9P19 B1	9P25 D8	9P28 D8	9P40 E8	9P44 E8	FP33 E1
2P80 B8	3P06 D5	3P36 D5	3P39 E5	3P80 B10	3P83 C2	3P86 D2	7P15-2 C2	7P16 E1	7P81 B5	9P23 C8	9P26 D8	9P29 D8	9P42 E8	FP23 C1	IP16 C9



SSB: I/O Part 1

B11A I/O: PART 1

B11A

AUDIO-IN4-L
AUDIO-IN4-R
SPI-1
SPI-OUT
AUDIO-IN3-L
AUDIO-IN3-R
AUDIO-OUT3-L
AUDIO-OUT3-R
A-PLOP
A-PLOP
AV1-AV5-AV6_R-PR-A
AV1-AV5-AV6_B-PB-A
AV1-AV5-AV6_G-Y-A
GEMSTAR
GLINK-IR-OUT
GLINK-TXD
GLINK-RXD
VGA
CONNECTOR
DDC NVM VGA
DATA-SDA

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1I00-1 A6	3I57 H5	II03 D2
1I00-2 B7	3I58 H9	II04 D3
1I00-3 C6	3I59 I9	II12 C4
1I01-1 A4	3I61 H9	II13 B4
1I01-2 B4	3I62 I10	II14 D5
1I01-3 C4	3I63 H11	II21 B7
1I02-1 A10	3I64 H11	II22 C7
1I02-2 B10	3I65 I11	II23 D7
1I02-3 C10	5I01 A5	II30 E2
1I03 A2	5I21 A7	II31 B11
1I04 B2	5I50 H8	II32 C11
1I05 F2	5I51 H8	II33 D11
1I06 F2	6I01 A2	II34 E3
1I07 F2	6I02 B2	II35 E3
1I09 E1	6I03 B2	II36 E3
1I10 G1	6I04 C2	II37 G5
1I11 A1	6I05 E1	II38 G5
1I12 C4	6I06 E2	II39 I9
1I13 D4	6I11 B4	II40 A3
1I14 B4	6I12 B5	II41 B3
1I21 B7	6I13 C4	II42 A5
1I22 C7	6I14 C5	II43 B5
1I23 D7	6I15 D5	II44 C5
1I31 B11	6I16 D5	II45 A9
1I32 C11	6I21 B7	II46 B9
1I33 D11	6I22 B7	II47 D9
1I50 G2	6I23 C7	II48 C8
1I51 G3	6I24 C7	II49 B8
1I52 G4	6I25 D7	II50 C9
1I53 I4	6I26 D7	II51 D9
1I54 I2	6I31 A11	II52 H10
1Y44 I13	6I32 B11	
2I01 A3	6I33 B11	
2I02 B3	6I34 C11	
2I05 D2	6I35 C11	
2I06 D2	6I36 D11	
2I09 C9	6I51 G2	
2I10 B9	6I52 G3	
2I11 B5	6I53 G4	
2I12 C5	6I54 I4	
2I13 D5	6I55 I2	
2I21 B8	6I56 H8	
2I22 C8	6I57 I9	
2I23 D8	6I58 H11	
2I25 B10	6I59 I11	
2I26 C10	7I01 D2	
2I27 D10	7I02 D3	
2I31 B12	7I21-1 D8	
2I51 I4	7I21-2 C8	
2I52 I3	7I50 H10	
2I53 H7	9I31 A13	
2I54 H8	9I32 B13	
2I55 H8	9I33 C13	
2I56 H8	9I51 G3	
3I00 A2	9I52 G4	
3I01 A3	9I53 G5	
3I02 B2	FI01 A1	
3I03 B3	FI02 A2	
3I05 D2	FI03 B2	
3I06 D2	FI04 E2	
3I07 E1	FI05 E2	
3I08 E3	FI06 E2	
3I09 E3	FI07 E1	
3I11 B5	FI27 H11	
3I12 B5	FI28 I10	
3I13 C5	FI31 A11	
3I14 C5	FI32 B11	
3I15 D5	FI33 C11	
3I21 B8	FI51 G2	
3I22 C8	FI52 G3	
3I23 B9	FI53 G4	
3I24 C9	FI54 H4	
3I25 C8	FI55 H2	
3I26 D8	FI56 H7	
3I27 C9	FI57 I8	
3I28 D9	FI58 G1	
3I31 B12	FI59 C4	
3I32 C12	FI70 B7	
3I33 D12	FI71 C7	
3I51 G3	FI72 A7	
3I52 G4	FI73 A4	
3I53 G5	FI74 B4	
3I54 H5	FI75 C4	
3I55 I4	II01 B2	
3I56 I3	II02 B2	

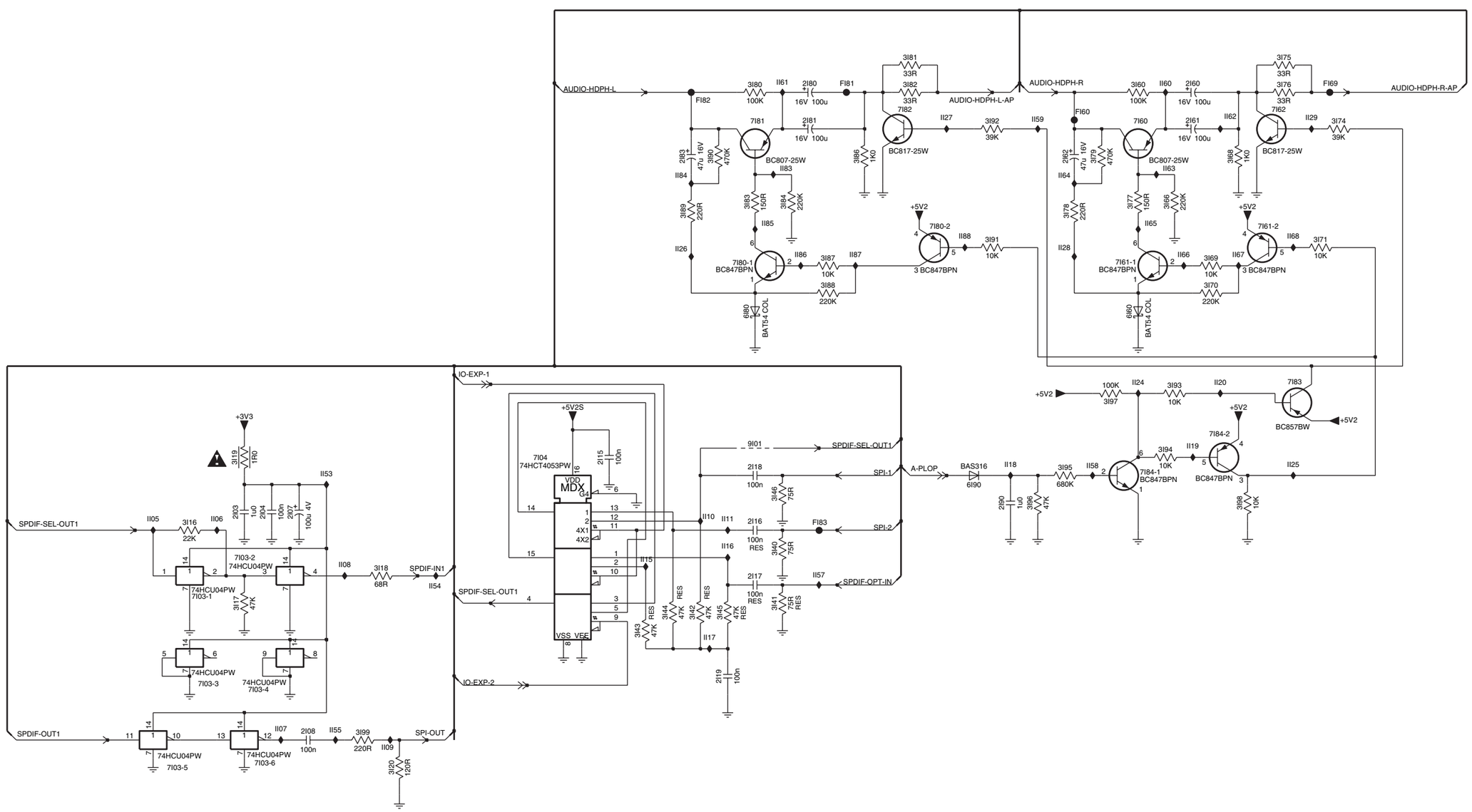
SSB: I/O Part 2

2I03 E3	2I17 F7	2I80 B7	3I18 E4	3I43 F6	3I68 B10	3I76 B11	3I82 B8	3I89 C6	3I95 E9	6I80 C7	7I03-5 G2	7I62 B11	7I84-1 E10	FI82 B6	II09 G4	II18 E9	II27 B8	II57 E7	II63 B10	II83 B7
2I04 E3	2I18 E7	2I81 B7	3I19 E3	3I44 F6	3I69 C10	3I77 C10	3I83 C7	3I90 B6	3I96 E9	6I90 E8	7I03-6 G3	7I80-1 C7	7I84-2 D10	FI83 E7	II10 E6	II19 D10	II28 C9	II58 E9	II64 B9	II84 B6
2I07 E3	2I19 F6	2I83 B6	3I20 G4	3I45 F6	3I70 C10	3I78 C9	3I84 C7	3I91 C8	3I97 D9	7I03-1 E2	7I04 E5	7I80-2 C8	9I01 D7	II05 E2	II11 E6	II20 D10	II29 B11	II59 B9	II65 C10	II85 C7
2I08 G3	2I60 B10	2I90 E9	3I40 E7	3I46 E7	3I71 C11	3I79 B9	3I86 B7	3I92 B8	3I98 E10	7I03-2 E3	7I60 B10	7I81 B7	FI60 B9	II06 E2	II15 E6	II24 D10	II53 E3	II60 B10	II66 C10	II86 C7
2I15 E5	2I61 B10	3I16 E2	3I41 F7	3I60 B10	3I74 B11	3I80 B7	3I87 C7	3I93 D10	3I99 G4	7I03-3 F2	7I61-1 C10	7I82 B8	FI69 B11	II07 G3	II16 E6	II25 E11	II54 F4	II61 B7	II67 C10	II87 C7
2I16 E7	2I62 B9	3I17 F3	3I42 F6	3I66 C10	3I75 A11	3I81 A8	3I88 C7	3I94 E10	6I60 C10	7I03-4 F3	7I61-2 C11	7I83 D11	FI81 B7	II08 E3	II17 F6	II26 C6	II55 G4	II62 B10	II68 C11	II88 C8

1 2 3 4 5 6 7 8 9 10 11 12

B11B I/O: PART 2 **B11B**

A B C D E F G



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1 2 3 4 5 6 7 8 9 10 11 12

SSB: USB 2.0

B12A USB 2.0

B12A

1Y41 EMC HOLE

+3V3 — 2N50 100p, 2N51 10n, 2N52 1u, 2N53 100u 4V, 2N03–2N11 100n, 5N02 30R, 2N02 100n, 3N01 30R, IN11, 2N13 100n, IN10, 2N12 100n

7N00 ISP1561BM

VCC: 10, 17, 25, 33, 41, 49, 57, 65, 73, 80

VAUX: 5, 85, 93, 108, 115, 121, 101

VAUX_T1, VAUX_T2, VAUX_T3, VAUXA_T4, VAUXA_PLL

Φ PCI HOST CONTROLLER

1	SEL48M	
2	SCL	
3	SDA	
9	ADP_SEL	
12	KBIRQ1	
13	MUIRQ12	
18	RST	
19	CLK	
20	GNT	IN01
35	IDSEL	
48	FRAME	
50	IRDY	
51	TRDY	
52	DEVSEL	
54	STOP	
55	CLKRUN	
56	PERR	
59	PAR	
107	RREF	
89	OC1	
90	PWE	
102	DM1	
103	DP1	
91	GL1	
92	AMB1	
95	GRN1	
96	OC2	
97	PWE2	
109	DM2	
110	DP2	
98	GL2	
99	AMB2	
100	GRN2	
105	OC3	
106	PWE3	
116	DM3	
117	DP3	
112	GL3	
113	AMB3	
114	GRN3	
119	OC4	
120	PWE4	
122	DM4	
123	DP4	
125	GL4	
126	AMB4	
127	GRN4	

4	PME	
7	IRQ1	
8	IRQ12	
11	A20OUT	
15	SMI	
16	INTA	IRQ-USB20
22	REQ	PCI-REQ
72	C0/BE0	PCI-CBE0
60	C1/BE1	PCI-CBE1
47	C2/BE2	PCI-CBE2
34	C3/BE3	PCI-CBE3
84	0	PCI-AD0
82	1	PCI-AD1
81	2	PCI-AD2
79	3	PCI-AD3
78	4	PCI-AD4
77	5	PCI-AD5
75	6	PCI-AD6
74	7	PCI-AD7
71	8	PCI-AD8
70	9	PCI-AD9
68	10	PCI-AD10
67	11	PCI-AD11
66	12	PCI-AD12
64	13	PCI-AD13
63	14	PCI-AD14
62	15	PCI-AD15
46	16	PCI-AD16
44	17	PCI-AD17
43	18	PCI-AD18
42	19	PCI-AD19
40	20	PCI-AD20
39	21	PCI-AD21
38	22	PCI-AD22
36	23	PCI-AD23
32	24	PCI-AD24
31	25	PCI-AD25
30	26	PCI-AD26
28	27	PCI-AD27
27	28	PCI-AD28
26	29	PCI-AD29
24	30	PCI-AD30
23	31	PCI-AD31
58	SERR	PCI-SERR
87	XI	
88	XO	

AD

RESET-USB20, PCI-CLK-USB20, PCI-GNT, PCI-AD22, PCI-FRAME, PCI-IRDY, PCI-TRDY, PCI-DEVSEL, PCI-STOP, PCI-PERR, PCI-PAR

USB-OVERCUR, USB-BUS-PW, USB-1-DM, USB-1-DP, USB-OVERCUR2, USB-BUS-PW2, USB-2-DM, USB-2-DP

9N03, 9N04, 9N05, 9N06, 9N07, 9N08, 9N09, 9N10, 9N11, 9N12, 9N14

IN01, IN02, IN03, IN04, IN05, IN06, IN07, IN08, IN09, IN10, IN11, IN12, IN13, IN14, IN15, IN16, IN17, IN20, IN21, IN22

3N25 4K7 RESET-USB20; 3N20 4K7 RES PCI-GNT; 3N05 150R; 3N09 100R; 3N21 4K7; 3N06 4K7; 3N07 4K7; 3N08 12K; 3N13–3N15 15K; 4K7 3N80; 4K7 3N81; 4K7 3N82; 4K7 3N83; 3N00 5R6; 5N00 22R; 2N00 33p; 1N00 12M; FN01; 2N01 33p; DGND; AGND_REF; AGND_T1–AGND_T4

4K7 3N22 RES; 3N23 4K7 IRQ-USB20; 3N24 4K7 PCI-REQ

USB11-1-DM, USB11-1-DP, USB11-2-DM, USB11-2-DP, USB11-BUS-PW, USB11-OVERCUR — 22R 3N10, 22R 3N11, 22R 3N16, 22R 3N17; 9N01, 9N02; USB-1-DM, USB-1-DP, USB-2-DM, USB-2-DP, USB-BUS-PW, USB-OVERCUR; 3N18 4K7, 3N19 4K7 +3V3

1N00 G7
1Y41 B2
2N00 G8
2N01 G8
2N02 C5
2N03 B5
2N04 B5
2N05 B5
2N06 B6
2N07 B6
2N08 B6
2N09 B6
2N10 B6
2N11 B7
2N12 C7
2N13 B7
2N50 B4
2N51 B4
2N52 B4
2N53 B5
3N05 D3
3N06 C4
3N07 C5
3N08 G4
3N09 D4
3N10 G12
3N11 H12
3N12 F4
3N13 F4
3N14 F4
3N15 F4
3N16 H12
3N17 H12
3N18 H14
3N19 H14
3N20 D1
3N21 D3
3N22 C8
3N23 D9
3N24 D9
3N25 D1
3N90 F3
3N92 F3
5N00 H6
5N01 C6
5N02 B7
7N00 C5
9N01 H12
9N02 H12
9N03 E3
9N04 E3
9N05 E3
9N06 E3
9N07 E3
9N08 F2
9N09 F3
9N10 D4
9N11 D4
9N12 E3
9N14 D8
FN01 G7
IN01 D5
IN02 D7
IN03 F4
IN04 D4
IN05 G4
IN06 H6
IN07 E3
IN08 E3
IN09 F4
IN10 C7
IN11 B7
IN12 E4
IN13 E3
IN14 E4
IN15 E4
IN16 D2
IN17 D3
IN20 D4
IN21 D4
IN22 D8

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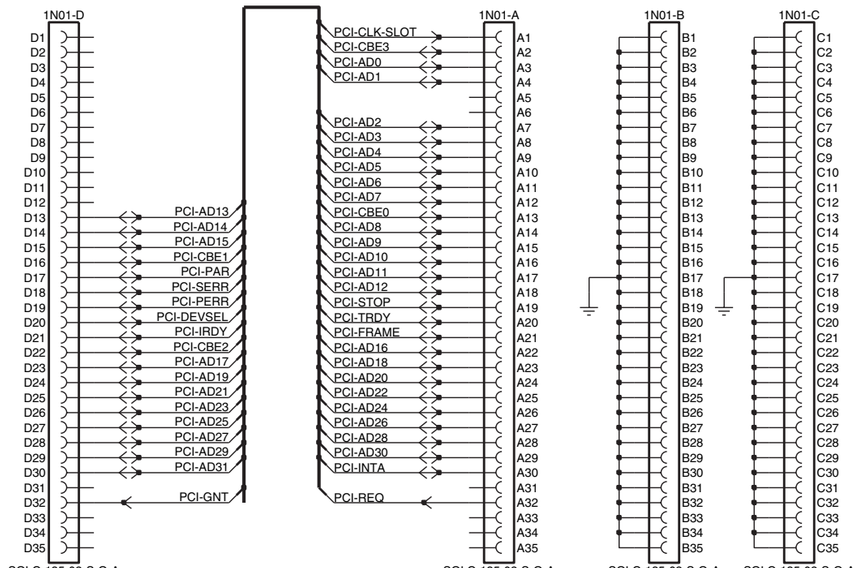
SSB: RS232 Interface

B12B RS232 INTERFACE

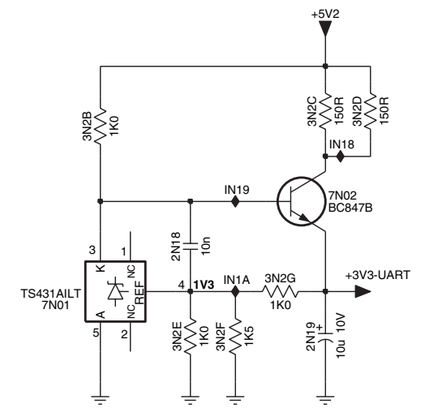
B12B

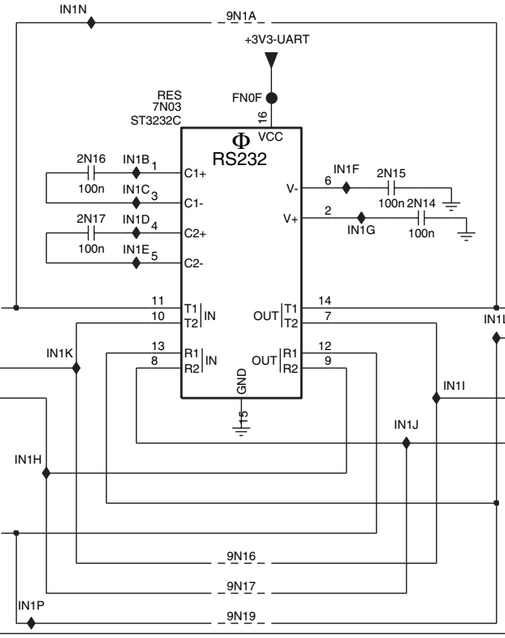
RESERVED

PCI

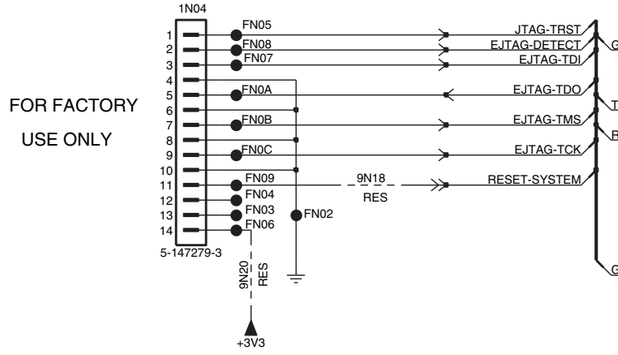


RS232 INTERFACE





EJTAG



FOR FACTORY USE ONLY

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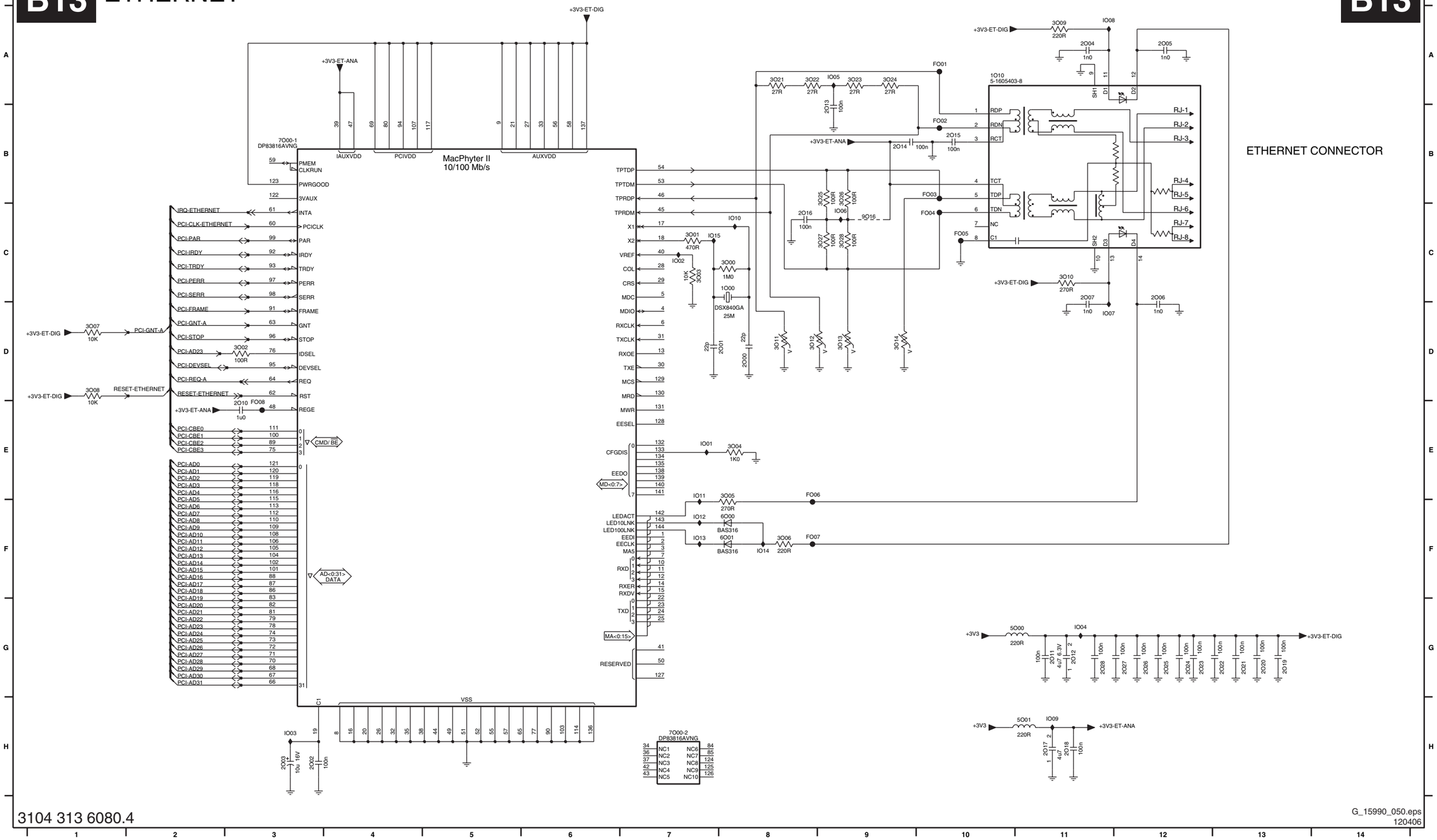
1N01-A A3
1N01-B A4
1N01-C A4
1N01-D A1
1N02 E9
1N03 E9
1N04 E3
2N14 E8
2N15 D8
2N16 D6
2N17 E6
2N18 B7
2N19 C7
3N29 E8
3N2A F8
3N2B B6
3N2C B7
3N2D B8
3N2E C7
3N2F C7
3N2G C7
3N2H E8
3N2I E9
7N01 C6
7N02 B8
7N03 D7
9N16 F7
9N17 F7
9N18 F3
9N19 F7
9N1A D7
9N1B E6
9N1C F6
9N20 F3
FN02 F3
FN03 F3
FN04 F3
FN05 E3
FN06 F3
FN07 E3
FN08 E3
FN09 F3
FN0A E3
FN0B E3
FN0C F3
FN0D E9
FN0E F9
FN0F D7
FN0G E9
FN0H E9
IN18 B8
IN19 B7
IN1A C7
IN1B D6
IN1C D6
IN1D E6
IN1E E6
IN1F D7
IN1G E7
IN1H F6
IN1I E8
IN1J F8
IN1K E6
IN1L E8
IN1M E8
IN1N D6
IN1P F6

SSB: Ethernet

1O00 C8	2O02 H3	2O06 C12	2O12 G11	2O16 C8	2O20 G13	2O24 G12	2O28 G11	3O03 C7	3O07 D1	3O11 D8	3O21 A8	3O25 B9	5O00 G11	7O00-1 B3	FO02 B10	FO06 E8	IO02 C7	IO06 C9	IO10 C8	IO14 F8
1O10 A10	2O03 H3	2O07 C11	2O13 B9	2O17 H11	2O21 G13	2O25 G12	3O00 C8	3O04 E8	3O08 D1	3O12 D8	3O22 A8	3O26 B9	5O01 H11	7O00-2 H7	FO03 B10	FO07 F8	IO03 H3	IO07 D11	IO11 E7	IO15 C7
2O00 D8	2O04 A11	2O10 E3	2O14 B9	2O18 H11	2O22 G13	2O26 G12	3O01 C7	3O05 E8	3O09 A11	3O13 D9	3O23 A9	3O27 C9	6O00 F8	9O16 C9	FO04 C10	FO08 E3	IO04 G11	IO08 A11	IO12 F7	
2O01 D8	2O05 A12	2O11 G11	2O15 B10	2O19 G13	2O23 G12	2O27 G12	3O02 D3	3O06 F8	3O10 C11	3O14 D9	3O24 A9	3O28 C9	6O01 F8	FO01 A10	FO05 C10	IO01 E7	IO05 A9	IO09 H11	IO13 F7	

B13 ETHERNET



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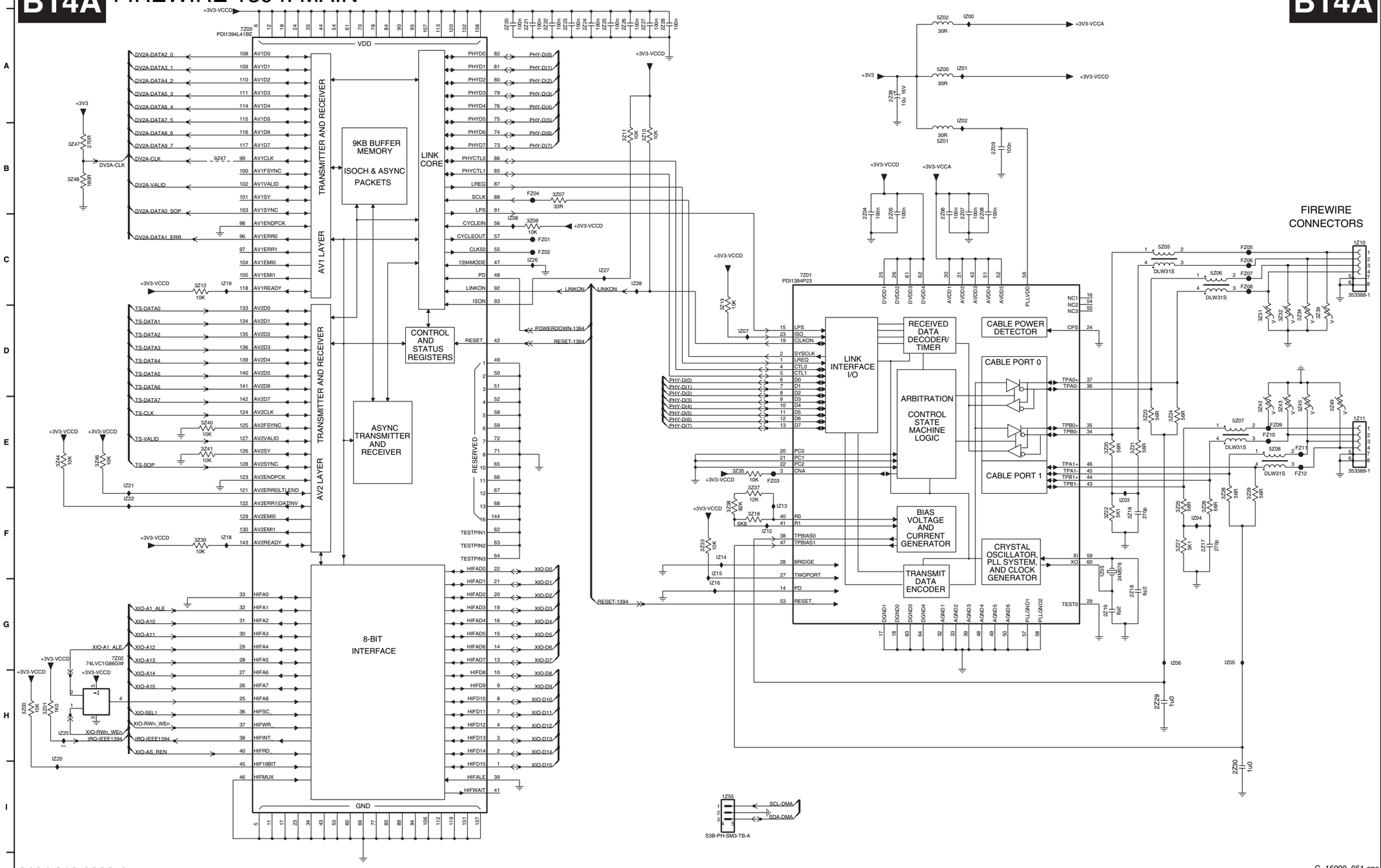
SSB: Firewire 1394: Main

B14A FIREWIRE 1394: MAIN

B14A



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1Z11 E14 IZ06 G13
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2Z04 B9 IZ08 C5
2Z05 B10 IZ12 F8
2Z06 B10 IZ13 F8
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2Z08 B11 IZ15 F8
2Z09 B11 IZ16 G8
2Z16 F12 IZ18 F2
2Z17 F13 IZ19 C2
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2Z20 A5 IZ22 F1
2Z21 A6 IZ25 H1
2Z22 A6 IZ26 C6
2Z23 A6 IZ27 C6
2Z24 A6 IZ28 C7
2Z25 A6
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2Z28 A7
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3Z08 C6
3Z10 B7
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3Z13 C8
3Z18 F8
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3Z22 F12
3Z23 E12
3Z24 E13
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3Z26 F13
3Z27 F13
3Z28 F13
3Z29 F14
3Z30 F2
3Z31 D14
3Z32 D14
3Z33 F8
3Z34 D14
3Z35 E8
3Z37 F8
3Z38 F8
3Z39 D14
3Z40 E2
3Z41 E2
3Z42 E14
3Z43 E14
3Z44 E1
3Z45 E14
3Z46 E1
3Z47 B1
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3Z49 E14
5Z00 A10
5Z01 B10
5Z02 A10
5Z05 C13
5Z06 C13
5Z07 E13
5Z08 E14
7Z00 A3
7Z01 C9
7Z02 G1
9Z47 B2
FZ01 C6
FZ02 C6
FZ03 E8
FZ04 B6
FZ05 C14
FZ06 C14
FZ07 C14
FZ08 C14
FZ09 E14
FZ10 E14
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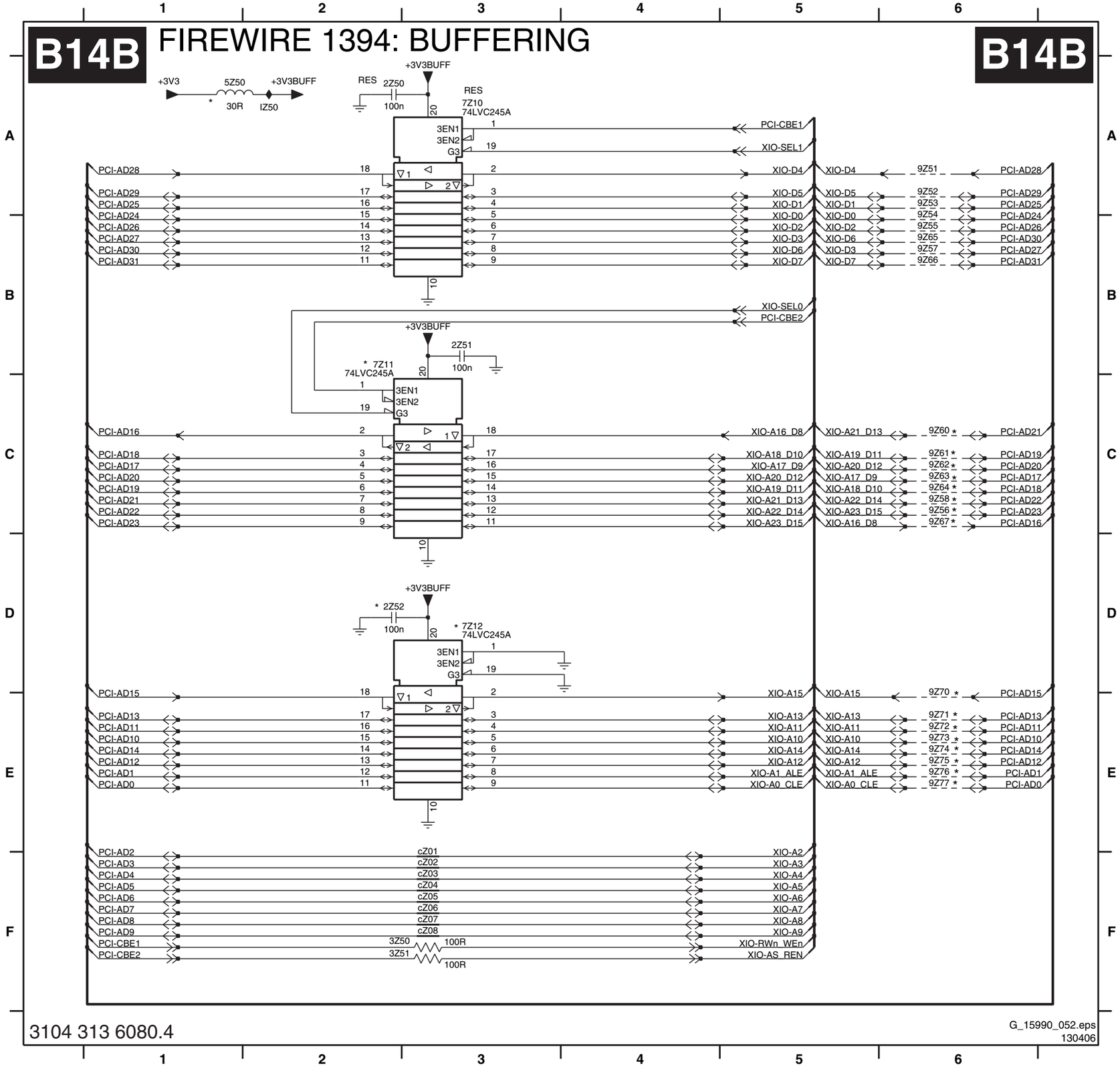
FZ12 E14
IZ00 A10
IZ01 A10
IZ02 A10
IZ03 F12

SSB: Firewire 1394: Buffering



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3Z50 F2
3Z51 F2
5Z50 A1
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9Z51 A6
9Z52 A6
9Z53 A6
9Z54 B6
9Z55 B6
9Z56 C6
9Z57 B6
9Z58 C6
9Z60 C6
9Z61 C6
9Z62 C6
9Z63 C6
9Z64 C6
9Z65 B6
9Z66 B6
9Z67 C6
9Z70 E6
9Z71 E6
9Z72 E6
9Z73 E6
9Z74 E6
9Z75 E6
9Z76 E6
9Z77 E6
IZ50 A2
cZ01 F3
cZ02 F3
cZ03 F3
cZ04 F3
cZ05 F3
cZ06 F3
cZ07 F3
cZ08 F3

SSB: Audio: Left / Right

2D00 E7	2D11 C7	2D20 F7	2D29 G2	2D39 H15	2D48 D4	3D00 B4	3D13-1 G12	3D21 B4	3D30 C7	3D39 D5	3D48 F13	3D57 G5	3D66 H11	5D13 F6	7D10-3 F10	7D16-2 F4	7D23-1 E13	FD25 F1	ID10 E7	ID21 F11	ID32 G5	ID41 G15	ID50 B5	ID70 B8	ID80 C12
2D01 H7	2D12 C5	2D21 F14	2D30 G10	2D40 H3	2D49 A3	3D07 C13	3D13-3 G11	3D22 B5	3D31 C3	3D40 D4	3D49 F5	3D58 G12	3D67 H3	5D14 F14	7D10-4 B4	7D17 G4	7D23-2 G12	FD52 B2	ID11 E14	ID22 F12	ID33 G12	ID42 G3	ID51 B4	ID71 C10	ID81 D13
2D02 E15	2D13 E7	2D22 F2	2D31 G1	2D41 H11	2D74 B13	3D08 C13	3D13-3 E11	3D23 B2	3D32 C9	3D41 E6	3D50 F12	3D59 G11	3D68 H11	5D15 G2	7D11-1 B5	7D18-1 E5	7D25-1 G8	FD58 A4	ID12 E11	ID23 F5	ID34 G3	ID43 G10	ID53 B5	ID72 C10	ID82 F6
2D03 H14	2D14 E8	2D23 F9	2D32 G6	2D42 H2	2DG3 H3	3D10 E3	3D13-4 E13	3D24 B8	3D33 C9	3D42 E4	3D51 F1	3D60 G4	3D69 A4	5D16 G8	7D11-2 C5	7D18-2 G5	7D25-2 B8	FD63 C7	ID13 E4	ID26 F2	ID35 G6	ID44 H2	ID54 B3	ID73 C9	ID83 F6
2D04 C6	2D15 E14	2D24 F6	2D33 G14	2D43 H3	2DG4 H10	3D11-1 E5	3D15 A3	3D25 B9	3D34 C5	3D43 E11	3D52 F9	3D61 H3	3DF3 G11	5D17 G15	7D12-1 D4	7D19 F11	7D26-1 C9	ID00 B4	ID14 F5	ID27 F10	ID36 G4	ID45 G13	ID55 C6	ID74 F9	ID86 F4
2D05 B10	2D16 E15	2D25 G3	2D34 H2	2D44 H10	2DH1 B7	3D11-2 E4	3D17 A4	3D26 B2	3D35 C7	3D44 E12	3D53 G9	3D62 H3	3DF3 G11	6D10 B4	7D12-2 C3	7D20 E12	7D26-2 B10	ID01 C10	ID15 F12	ID28 G4	ID37 G11	ID46 H3	ID56 C4	ID75 F11	ID87 F4
2D06 B12	2D17 F9	2D26 G11	2D35 H7	2D45 H10	2DH2 C9	3D11-3 G3	3D18 B3	3D27 C4	3D36 C3	3D45 F6	3D54 G2	3D63 H10	5D10 E8	6D11 C4	7D14 F4	7D21-1 F12	7D30 F6	ID02 E6	ID16 F6	ID29 G12	ID38 G10	ID47 H11	ID57 C3	ID76 F11	cD01 D15
2D07 C12	2D18 F2	2D27 F13	2D36 H7	2D46 H9	2DH3 A4	3D11-4 G4	3D19 B2	3D28 B5	3D37 C9	3D46 F13	3D55 G4	3D64 H11	5D11 E15	7D10-1 B3	7D15 E5	7D21-2 F12	7D31 F14	ID03 E6	ID17 F13	ID30 C7	ID39 G2	ID48 B6	ID58 C4	ID77 F14	
2D10 B2	2D19 G7	2D28 G13	2D38 H14	2D47 C3	2DH5 C4	3D12 E11	3D20 B8	3D29 C3	3D38 C4	3D47 F6	3D56 G11	3D65 H3	5D12 F2	7D10-2 F3	7D16-1 F5	7D22 G12	FD24 F9	ID04 F13	ID20 F2	ID31 B8	ID40 G7	ID49 B3	ID62 F1	ID78 F13	

B15A AUDIO: LEFT / RIGHT

B15A

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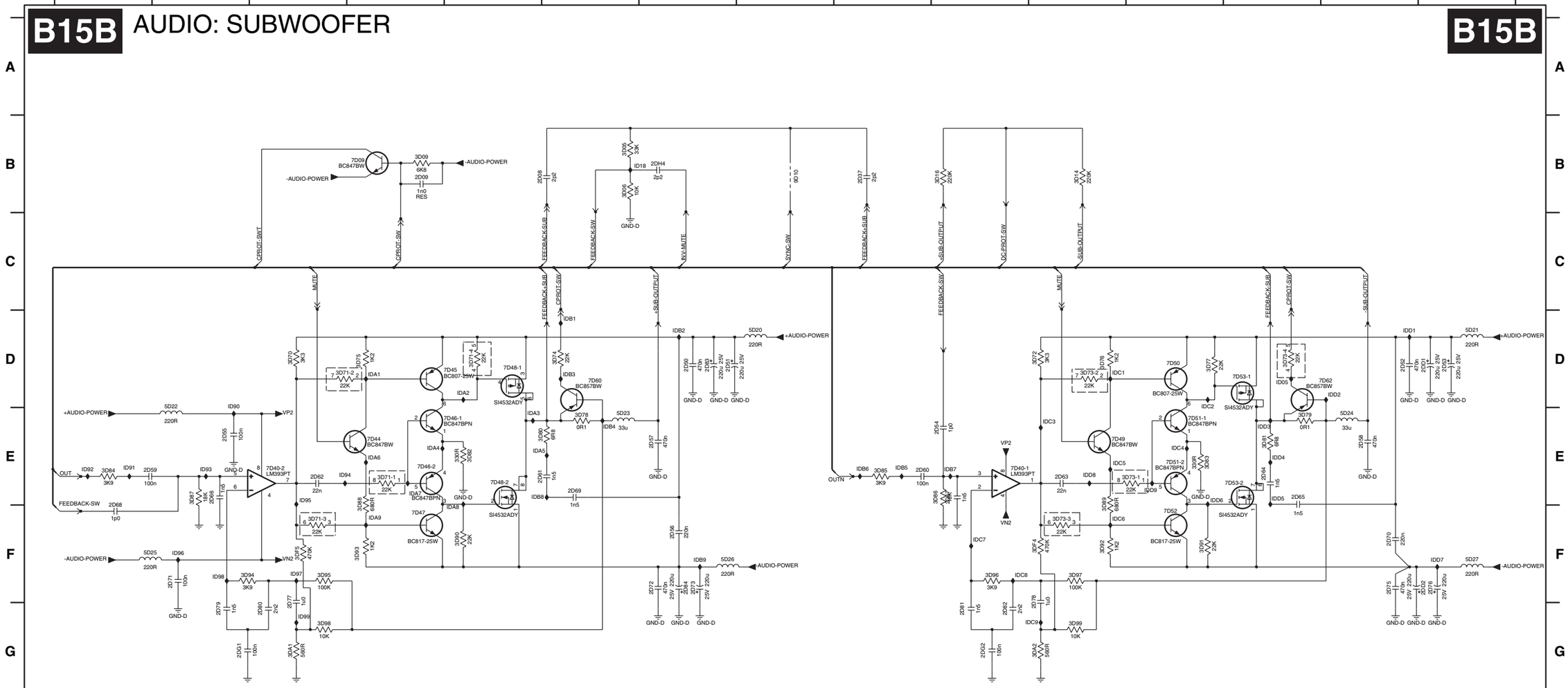
SSB: Audio: Subwoofer

2D08 B6 2D09 B4 2D37 B9 2D50 D7 2D51 D7 2D52 D14
2D53 D15 2D54 E10 2D55 E2 2D56 F7 2D57 E7 2D58 E14
2D59 E1 2D60 E9 2D61 E6 2D62 E3 2D63 E11 2D64 E13
2D65 E13 2D66 E2 2D67 E10 2D68 F1 2D69 E6 2D70 F14
2D71 F2 2D72 F7 2D73 F7 2D75 F14 2D76 F15 2D77 F3
2D78 F11 2D79 G2 2D80 G3 2D81 G10 2D82 G10 2D83 D7
2D84 F7 2DD1 D15 2DD2 F15 2DG1 G2 2DG2 G10 2DH4 B7
3D05 B6 3D06 B11 3D16 B10 3D70 D3
3D71-1 E4 3D71-2 D3 3D71-3 F3 3D71-4 D5 3D72 D11 3D73-1 E12
3D73-2 D11 3D73-3 F11 3D73-4 D13 3D74 D6 3D75 D4 3D76 D11
3D77 D12 3D78 E6 3D79 E13 3D80 E6 3D81 E13 3D82 E5
3D83 E12 3D84 E1 3D85 E9 3D86 E10 3D87 E2 3D88 E4
3D89 E11 3D90 F5 3D91 F12 3D92 F11 3D93 F4 3D94 F2
3D95 F3 3D96 F10 3D97 F11 3D98 G3 3D99 G11 3DA1 G3
3DA2 G11 3DF4 F11 3DF5 F3 5D20 D8 5D22 E8 5D23 F6
5D24 E14 5D25 F1 5D26 F7 5D27 F15 7D09 B4 7D46-2 E4
5D21 D15 5D22 E2
7D40-1 E10 7D40-2 E3 7D44 E4 7D45 D4 7D46-1 E4 7D46-2 E4
7D47 F4 7D48-1 D5 7D48-2 E5 7D49 E11 7D50 D12 7D51-1 E12
7D51-2 E12 7D53-1 D13 7D53-2 E13 7D60 D6 7D62 D14
9D10 B8 ID18 B7 ID90 D2 ID91 E1 ID92 F1
ID93 E5 ID94 F5 ID95 F6 ID96 F2 ID97 F3 ID98 F2
IDA1 D4 IDA2 D5 IDA3 E5 IDA4 E5 IDA5 E5
IDB1 E6 IDB2 E6 IDB3 E6 IDB4 E6 IDB5 E6 IDB6 E6
IDC1 E6 IDC2 E6 IDC3 E6 IDC4 E6 IDC5 E6 IDC6 E6
IDD1 E6 IDD2 E6 IDD3 E6 IDD4 E6 IDD5 E6 IDD6 E6
IDA6 E4 IDA7 E4 IDA8 F5 IDA9 F4 IDB1 D6 IDB7 E10
IDB8 E5 IDC7 E10 IDC8 E10 IDC9 G11 IDD7 E10
IDB3 D6 IDB4 E6 IDB5 E6 IDB6 E6 IDB7 E6 IDB8 E6
IDC1 E6 IDC2 E6 IDC3 E6 IDC4 E6 IDC5 E6 IDC6 E6
IDD1 E6 IDD2 E6 IDD3 E6 IDD4 E6 IDD5 E6 IDD6 E6
IDD9 E12

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

B15B AUDIO: SUBWOOFER



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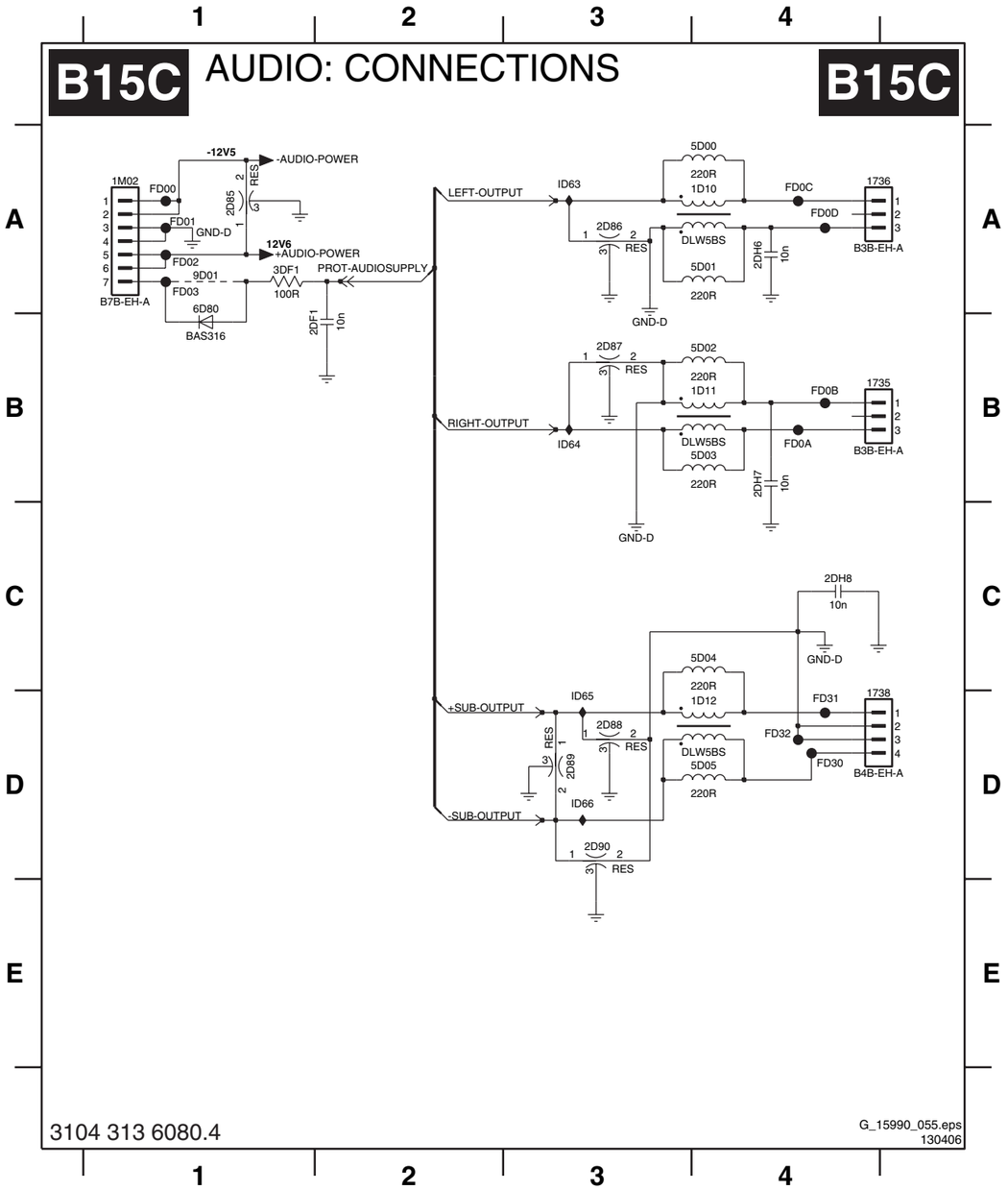

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1738 D4
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1D11 B4
1D12 D4
1M02 A1
2D85 A1
2D86 A3
2D87 B3
2D88 D3
2D89 D3
2D90 D3
2DF1 B2
2DH6 A4
2DH7 B4
2DH8 C4
3DF1 A1
5D00 A4
5D01 A4
5D02 B4
5D03 B4
5D04 C4
5D05 D4
6D80 A1
9D01 A1
FD00 A1
FD01 A1
FD02 A1
FD03 A1
FD0A B4
FD0B B4
FD0C A4
FD0D A4
FD30 D4
FD31 D4
FD32 D4
ID63 A3
ID64 B3
ID65 D3
ID66 D3

Personal Notes:

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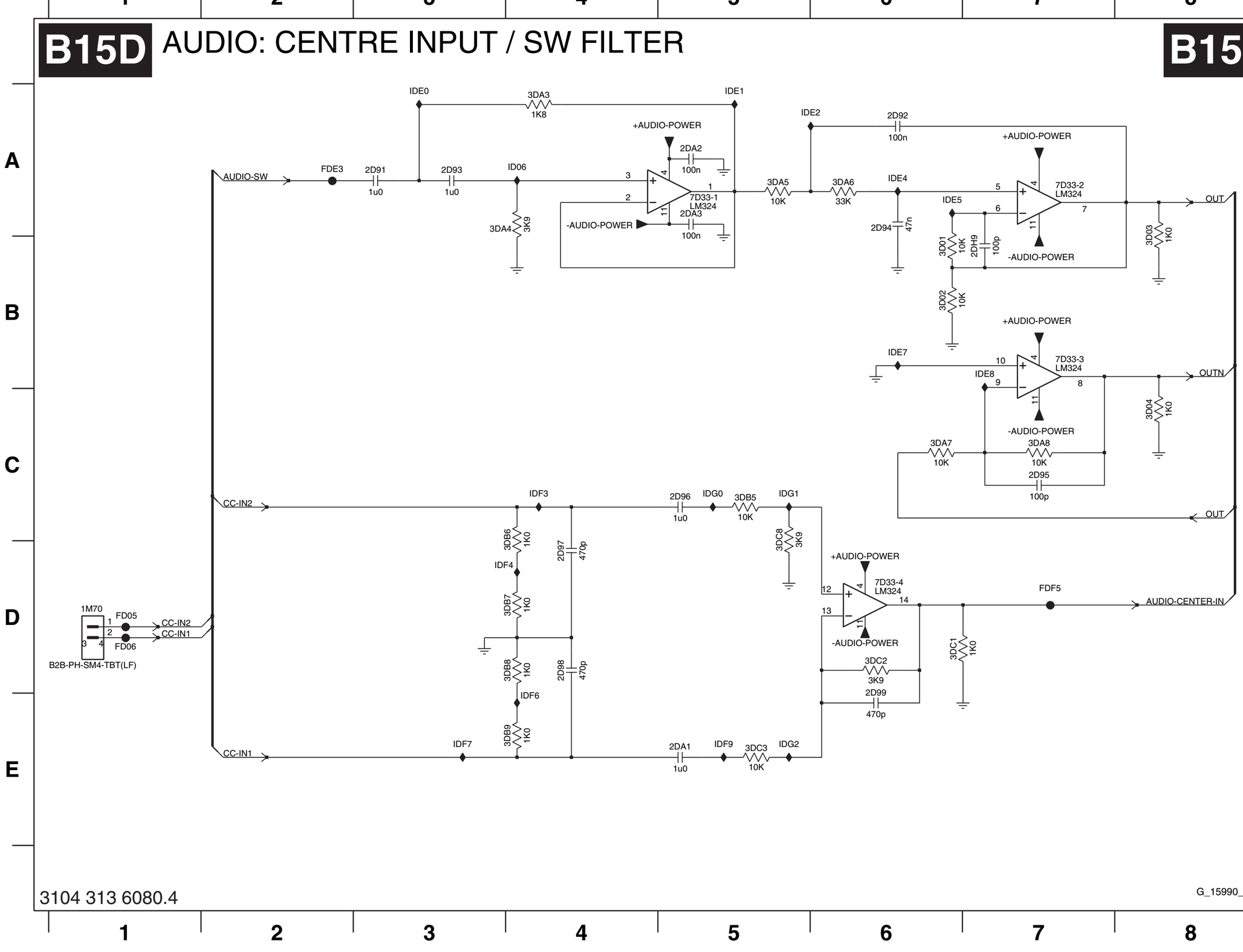
SSB: Audio: Centre Input / SW Filter

B15D AUDIO: CENTRE INPUT / SW FILTER



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2D92 A6
2D93 A3
2D94 A6
2D95 C7
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2D97 D4
2D98 D4
2D99 E6
2DA1 E5
2DA2 A5
2DA3 A5
2DH9 B7
3D01 B6
3D02 B6
3D03 A8
3D04 C8
3DA3 A4
3DA4 A3
3DA5 A5
3DA6 A6
3DA7 C6
3DA8 C7
3DB5 C5
3DB6 C4
3DB7 D4
3DB8 D4
3DB9 E4
3DC1 D6
3DC2 D6
3DC3 E5
3DC8 C5
7D33-1 A5
7D33-2 A7
7D33-3 B7
7D33-4 D6
FD05 D1
FD06 D1
FDE3 A2
FDF5 D7
ID06 A4
IDE0 A3
IDE1 A5
IDE2 A6
IDE4 A6
IDE5 A6
IDE7 B6
IDE8 B7
IDF3 C4
IDF4 D3
IDF6 E4
IDF7 E3
IDF9 E5
IDG0 C5
IDG1 C5
IDG2 E5

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SSB: Miscellaneous Part 1

B16A MISCELLANEOUS: PART 1

B16A

FE-MAIN-DATA0 4 — 9M83-4 5 — FE-DATA0
FE-SUB-DATA0 1 — 9M84-1 8
FE-MAIN-DATA1 3 — 9M83-3 6 — FE-DATA1
FE-SUB-DATA1 2 — 9M84-2 7
FE-MAIN-DATA2 2 — 9M83-2 7 — FE-DATA2
FE-SUB-DATA2 3 — 9M84-3 6
FE-MAIN-DATA3 1 — 9M83-1 8 — FE-DATA3
FE-SUB-DATA3 4 — 9M84-4 5
FE-MAIN-DATA4 4 — 9M82-4 5 — FE-DATA4
FE-SUB-DATA4 1 — 9M85-1 8
FE-MAIN-DATA5 3 — 9M82-3 6 — FE-DATA5
FE-SUB-DATA5 2 — 9M85-2 7
FE-MAIN-DATA6 2 — 9M82-2 7 — FE-DATA6
FE-SUB-DATA6 3 — 9M85-3 6
FE-MAIN-DATA7 1 — 9M82-1 8 — FE-DATA7
FE-SUB-DATA7 4 — 9M85-4 5
FE-MAIN-VALID 2 — 9M86-2 7 — FE-VALID
FE-SUB-VALID 1 — 9M87-1 8
FE-MAIN-CLK 1 — 9M86-1 8 — FE-CLK
FE-SUB-CLK 3 — 9M87-3 6
FE-MAIN-SOP 3 — 9M86-3 6 — FE-SOP
FE-SUB-SOP 2 — 9M87-2 7
4 — 9M86-4 5
4 — 9M87-4 5

AGC1 — 8 9M88-1 1 — AGC-MAIN
5 9M89-4 4
AGC2 — 7 9M88-2 2 — AGC-SUB
6 9M89-3 3
6 9M88-3 3
7 9M89-2 2
5 9M88-4 4
8 9M89-1 1

IF-TER1 — 2 9M8A 1 — IF-TER-MAIN
2 9M8B 1
2 9M8C 1 — IF-TER-SUB
IF-TER2 — 2 9M8D 1

SDA-DMA — 2 9M8G 1 — SDA-DMA-FE
SCL-DMA — 2 9M8H 1 — SCL-DMA-FE

SDM — 9M91
SPI-PROG — 9M90

RESET-FE-MAIN — 2 1 cM80 — RESET-FE-SUB
IRQ-FE-MAIN — 2 1 cM81 — IRQ-FE-SUB
SEL-POD — 2 1 cM82 — SEL-POD-SUB
2 1 cM83 — SEL-POD-MAIN
CISEL-3V3 — 2 1 cM84 — CISEL-3V3-MAIN
2 1 cM85 — CISEL-3V3-SUB

9M82-1 C7
9M82-2 C7
9M82-3 B7
9M82-4 B7
9M83-1 B7
9M83-2 B7
9M83-3 B7
9M83-4 B7
9M84-1 B7
9M84-2 B7
9M84-3 B7
9M84-4 B7
9M85-1 B7
9M85-2 C7
9M85-3 C7
9M85-4 C7
9M86-1 C7
9M86-2 C7
9M86-3 C7
9M86-4 C7
9M87-1 C7
9M87-2 C7
9M87-3 C7
9M87-4 C7
9M88-1 D7
9M88-2 D7
9M88-3 D7
9M88-4 D7
9M89-1 D7
9M89-2 D7
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9M89-4 D7
9M8A D7
9M8B D7
9M8C D7
9M8D E7
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9M91 E4
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cM81 E7
cM82 E7
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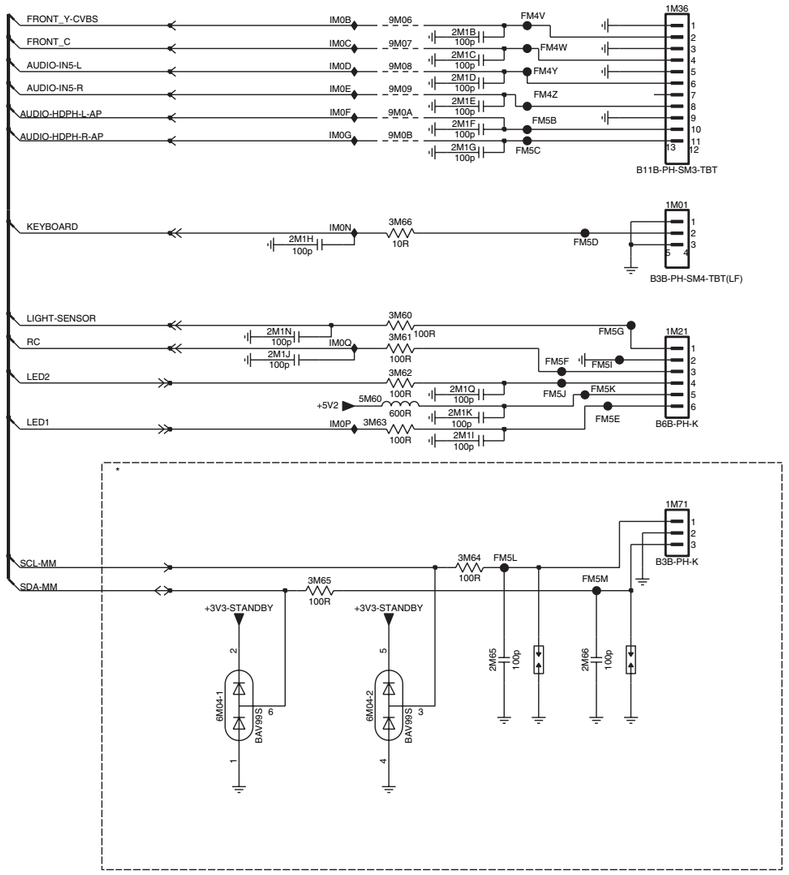
SSB: Miscellaneous Part 2

B16B MISCELLANEOUS: PART 2



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1M36 B9
1M71 E9
2M1B B8
2M1C B8
2M1D B8
2M1E B8
2M1F B8
2M1G C8
2M1H C7
2M1I D8
2M1J D7
2M1K D8
2M1N D7
2M1Q D8
2M65 F8
2M66 F9
3M60 D7
3M61 D7
3M62 D7
3M63 D7
3M64 E8
3M65 E7
3M66 C7
5M60 D7
6M04-1 F6
6M04-2 F7
9M06 B7
9M07 B7
9M08 B7
9M09 B7
9M0A B7
9M0B B7
FM4V B8
FM4W B8
FM4Y B8
FM4Z B8
FM5B B8
FM5C C8
FM5D C9
FM5E D9
FM5F D8
FM5G D9
FM5I D9
FM5J D8
FM5K D9
FM5L E8
FM5M E9
IM0B B7
IM0C B7
IM0D B7
IM0E B7
IM0F B7
IM0G B7
IM0N C7
IM0P D7
IM0Q D7

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SSB: Miscellaneous Part 3

B16C MISCELLANEOUS: PART 3

B16C

1E45 C5
1E50 C6
1M15 I4
1M52 F1
2M11 G10
2M12 I3
2M15 A9
2M17 I4
2M4A D1
2M4B E1
2M4C G3
2M4D F3
2M4E G3
2M4F H3
2M4G G3
2M4H G3
2M4K D3
2M4L D3
2M4M F4
2M4N G4
2M4P G4
2M4R G4
2M51 I8
2M52 B7
2M53 B7
2M54 B7
2M55 C11
2M56 C11
2M57 B11
2M58 C11
2M59 C11
2M5A C11
2M5B D9
2M5C E9
2M5D E9
2M5E E8
2M5F F11
2M5H G11
2M5I H11
2M5J G11
2M5K G11
2M5L G11
2M5N I11
2M5P A7
2M5Q G11
2M5R H11
2M5S H11
2M5T H11
2M5U F11
2M5V F11
2M5W H4
2M6B D7
2M6C E7
2M6D I7
3M10 A8
3M11 A8
3M12 B8
3M40 D2
3M41 D2
3M42 I2
3M43 I2
3M44 F3
3M45 G3
3M46 G3
3M47 G3
3M48 D3
3M49 E2
3M4A E2
3M4B E3
3M4C E2
3M4D H7
3M4E I8
3M50 G3
5M10 A9
5M4B C4
5M4D G3
6M40-1 H2
6M40-2 I2
7M10 A8
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7M12 B8
7M40-1 D2
7M40-2 D3
7M41 I8
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9M5F H11
9M5G C11
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9M8J D7
FM49 G2
FM4A F2
FM4B G2
FM4C G2
FM4D G2
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FM4G C7
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FM4I C7
FM4J D6
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FM4L C7
FM4M D6
FM4N D7
FM4P D6
FM4Q D6
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FM50 I2
FM51 I2
FM52 E3
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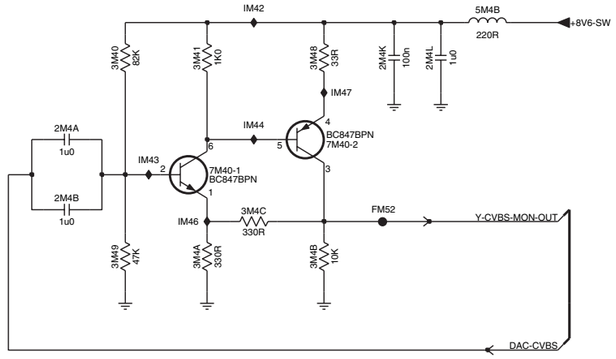
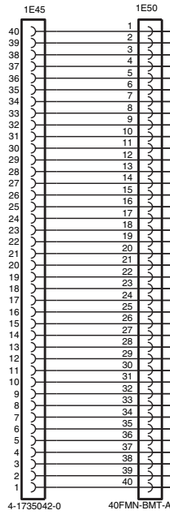
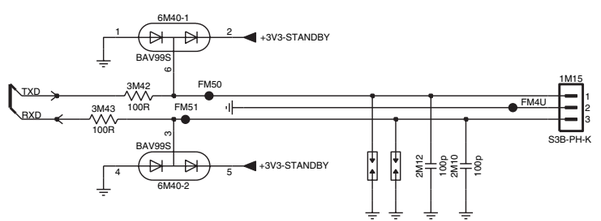
IM50 I11







SERVICE UART CONNECTOR

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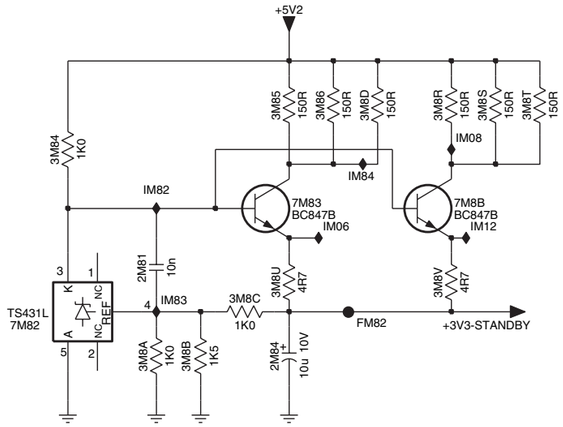
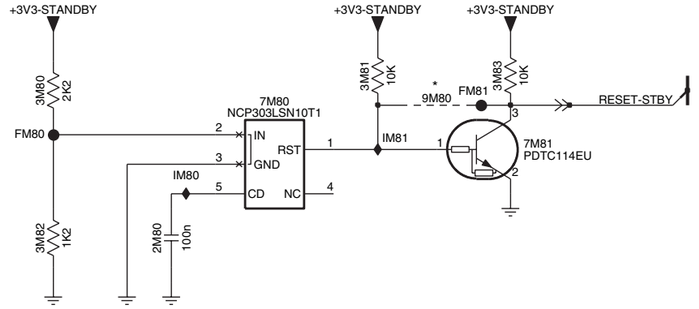
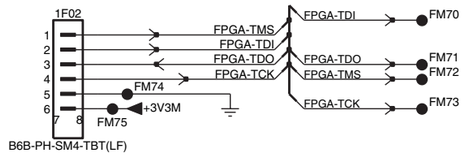
SSB: Miscellaneous Part 4

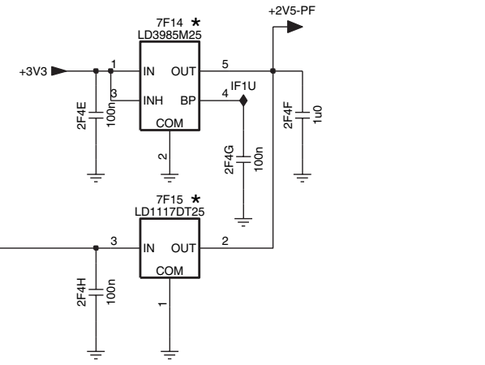
B16D MISCELLANEOUS: PART 4

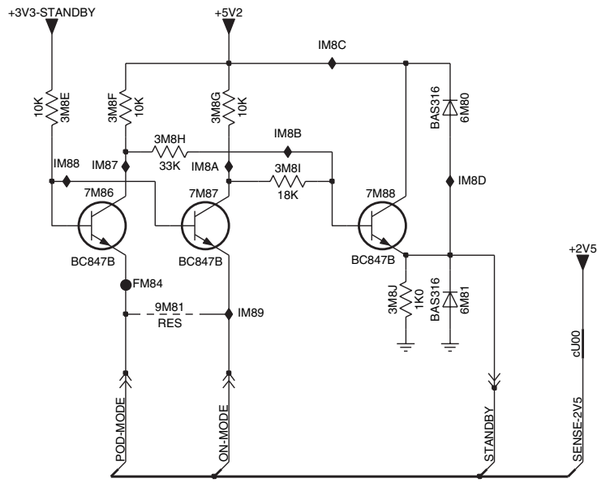


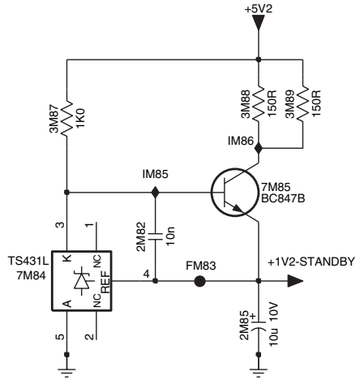




FOR FACTORY USE







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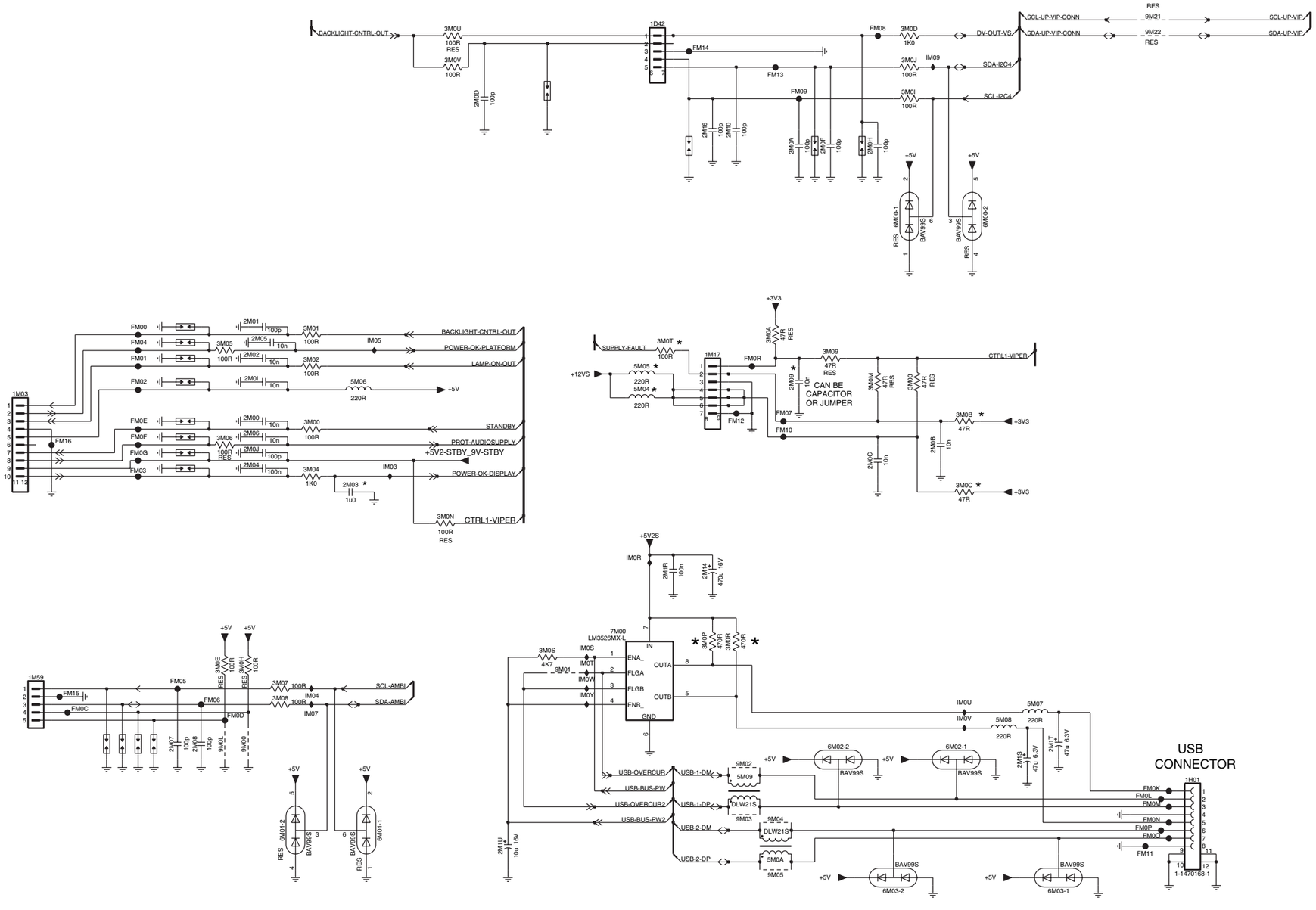
1F02 A7
2F3D F8
2F3E F9
2F3F F8
2F4E D8
2F4F D9
2F4G D8
2F4H E8
2F4U F9
2M13 E7
2M80 C4
2M81 C1
2M82 F5
2M84 C2
2M85 F5
3F3H F8
3F3I F8
3F3J F8
3M80 B4
3M81 B5
3M82 C4
3M83 B6
3M84 B1
3M85 B2
3M86 B2
3M87 E5
3M88 E5
3M89 E6
3M8A C1
3M8B C1
3M8C C2
3M8D B2
3M8E D1
3M8F D1
3M8G D2
3M8H E1
3M8I E2
3M8J E3
3M8R B3
3M8S B3
3M8T B3
3M8U C2
3M8V C3
6M80 D3
6M81 E3
7F14 C8
7F15 D8
7F17 E8
7M80 B5
7M81 B6
7M82 C1
7M83 B2
7M84 F4
7M85 E6
7M86 E1
7M87 E2
7M88 E2
7M8B B3
9M80 B6
9M81 E1
FM70 A9
FM71 B9
FM72 B9
FM73 B9
FM74 B8
FM75 B8
FM80 B4
FM81 B6
FM82 C2
FM83 F5
FM84 E1
IF1L F8
IF1U D8
IM06 C2
IM08 B3
IM12 C3
IM80 B5
IM81 B6
IM82 B1
IM83 C1
IM84 B2
IM85 E5
IM86 E5
IM87 E1
IM88 E1
IM89 E2
IM8A E2
IM8B E2
IM8C D2
IM8D E3
cU00 F3

SSB: Miscellaneous Part 5

B16E MISCELLANEOUS: PART 5



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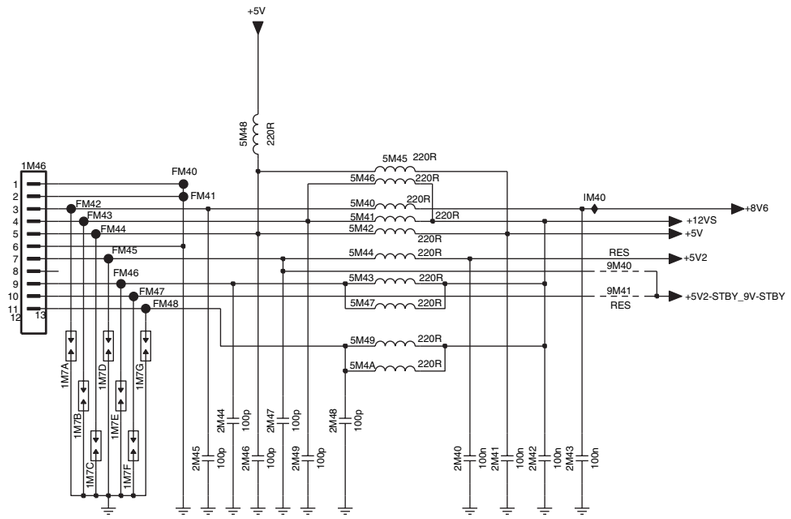
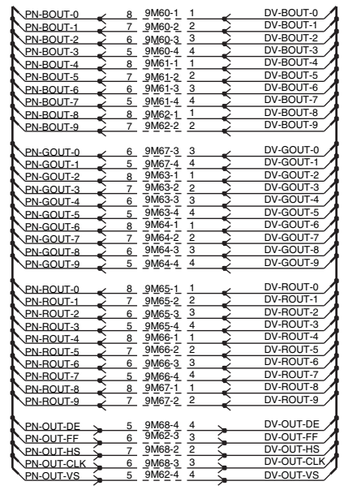
1D42 A7 IM07 G3
1H01 H11 IM09 A9
1M03 D1 IM0R F6
1M17 D7 IM0S G6
1M59 G1 IM0T G6
2M00 E3 IM0U G9
2M01 D3 IM0V G9
2M02 D3 IM0W G6
2M03 E4 IM0Y G6
2M04 E3
2M05 D3
2M06 E3
2M07 H2
2M08 H2
2M09 D8
2M0A B8
2M0B E9
2M0C E9
2M0D B5
2M0F B8
2M0H B9
2M0I D3
2M0J E3
2M10 B7
2M14 F7
2M16 B7
2M1R F7
2M1S H10
2M1T H10
2M1U H5
3M00 E3
3M01 D3
3M02 D3
3M03 D9
3M04 E3
3M05 D3
3M06 E3
3M07 G3
3M08 G3
3M09 D8
3M0A D8
3M0B E9
3M0C E9
3M0D A9
3M0E G3
3M0H G3
3M0I B9
3M0J A9
3M0M D9
3M0N F5
3M0P G7
3M0R G7
3M0S G6
3M0T D7
3M0U A5
3M0V A5
5M04 D6
5M05 D6
5M06 D4
5M07 G10
5M08 G10
5M09 H7
5M0A I8
6M00-1 C9
6M00-2 C10
6M01-1 H4
6M01-2 H3
6M02-1 H9
6M02-2 H8
6M03-1 I10
6M03-2 I9
7M00 G6
9M00 H3
9M01 G6
9M02 H7
9M03 H7
9M04 H8
9M05 I8
9M0L H3
9M21 A11
9M22 A11
FM00 D2
FM01 D2
FM02 D2
FM03 E2
FM04 D2
FM05 G2
FM06 G3
FM07 E8
FM08 A9
FM09 B8
FM0C G1
FM0D G3
FM0E E2
FM0F E2
FM0G E2
FM0K H11
FM0L H11
FM0M H11
FM0N H11
FM0P H11
FM0Q H11
FM0R D7
FM10 E8
FM11 I11
FM12 E7
FM13 A8
FM14 A7
FM15 G1
FM16 E1
IM03 E4
IM04 G3
IM05 D4

SSB: Miscellaneous Part 6

B16F MISCELLANEOUS: PART 6





1M46 B1
1M7A C1
1M7B D1
1M7C D1
1M7D C1
1M7E D1
1M7F D1
1M7G C2
2M40 D3
2M41 D4
2M42 D4
2M43 D4
2M44 D2
2M45 D2
2M46 D2
2M47 D2
2M48 D3
2M49 D2
5M40 B3
5M41 B3
5M42 B3
5M43 C3
5M44 C3
5M45 B3
5M46 B3
5M47 C3
5M48 B2
5M49 C3
5M4A C3
9M40 C4
9M41 C4
9M60-1 B8
9M60-2 B8
9M60-3 B8
9M60-4 B8
9M61-1 B8
9M61-2 B8
9M61-3 B8
9M61-4 C8
9M62-1 C8
9M62-2 C8
9M62-3 D8
9M62-4 E8
9M63-1 C8
9M63-2 C8
9M63-3 C8
9M63-4 C8
9M64-1 C8
9M64-2 C8
9M64-3 C8
9M64-4 C8
9M65-1 D8
9M65-2 D8
9M65-3 D8
9M65-4 D8
9M66-1 D8
9M66-2 D8
9M66-3 D8
9M66-4 D8
9M67-1 D8
9M67-2 D8
9M67-3 C8
9M67-4 C8
9M68-2 E8
9M68-3 E8
9M68-4 D8
FM40 B2
FM41 B2
FM42 B1
FM43 B1
FM44 B1
FM45 C1
FM46 C1
FM47 C2
FM48 C2
IM40 B4

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SSB: SRP Overview Part 1

Net Name	Diagram
+12V-DC	B01a (3x)
+12V-DC	B01b (1x)
+12VS	B01a (2x)
+12VS	B16e (2x)
+12VS	B16f (2x)
+12VSW	B01a (2x)
+12VSW	B01c (2x)
+12VSW	B04b (4x)
+12VSW	B04i (8x)
+12VSW	B05c (2x)
+12VSW	B05e (2x)
+12VSW	B08f (2x)
+1V2	B01a (8x)
+1V2	B05e (2x)
+1V2	B07d (14x)
+1V2-FPGA	B08b (1x)
+1V2-FPGA	B08c (2x)
+1V2-FPGA-SENSE	B01c (1x)
+1V2M	B08g (17x)
+1V2-PF	B08g (1x)
+1V2-PLL	B08b (1x)
+1V2-PLL	B08c (1x)
+1V2-STANDBY	B05e (1x)
+1V2-STANDBY	B05f (1x)
+1V2-STANDBY	B16d (2x)
+1V5-P3	B08e (2x)
+1V5-P3-FPGA	B08e (4x)
+1V5-P3-FPGA	B16d (4x)
+1V5-PLL	B08e (2x)
+1V5-RX	B08e (2x)
+1V5-SP-CORE	B06c (5x)
+1V5-SP-CORE	B06d (1x)
+1V5-TX	B08e (2x)
+1V8	B09c (5x)
+1V8DVB-MAIN	B02b (7x)
+1V8DVB-SUB	B03b (7x)
+2V5	B01a (14x)
+2V5	B05d (2x)
+2V5	B05e (2x)
+2V5	B06b (2x)
+2V5	B06c (4x)
+2V5	B06d (2x)
+2V5	B07d (6x)
+2V5	B16d (2x)
+2V5D	B01a (8x)
+2V5D	B07b (2x)
+2V5D	B07d (2x)
+2V5D-DDR	B07b (6x)
+2V5-DDR	B05d (4x)
+2V5-DDRPNX	B05d (1x)
+2V5-DDRPNX	B05f (1x)
+2V5-FPGA	B08b (1x)
+2V5-FPGA	B08c (1x)
+2V5M	B08g (21x)
+2V5-N	B05c (2x)
+2V5-P3	B08e (2x)
+2V5-PC	B01a (2x)
+2V5-PC	B16d (2x)
+2V5-PF	B08e (4x)
+2V5-PF	B08g (2x)
+2V5-PF	B16d (4x)
+2V5-PLL	B08e (2x)
+2V5-S	B05c (1x)
+2V5-S	B05f (1x)
+2V5-SPDDR	B06b (3x)
+2V5-SP-DDR	B06b (1x)
+2V5-SP-DDR	B06c (2x)
+2V5-SP-TUN	B06a (2x)
+2V5-SP-TUN	B06c (2x)
+2V5-VPR	B07b (1x)
+2V5-VPR	B07c (1x)
+2V5-VPR	B07d (3x)
+2V8	B01a (2x)
+33VREG	B02a (2x)
+33VREG	B03a (2x)
+33VTUN-SUB	B03a (2x)
+3V3	B01a (6x)
+3V3	B02b (8x)
+3V3	B03b (6x)
+3V3	B05a (2x)
+3V3	B05e (2x)
+3V3	B05f (14x)
+3V3	B06c (2x)
+3V3	B07a (40x)
+3V3	B07c (2x)
+3V3	B07d (8x)
+3V3	B08d (2x)
+3V3	B08e (8x)
+3V3	B08f (16x)
+3V3	B08g (8x)
+3V3	B09b (2x)
+3V3	B09c (8x)
+3V3	B10a (20x)
+3V3	B10b (6x)
+3V3	B10c (14x)
+3V3	B10d (6x)
+3V3	B11b (2x)
+3V3	B12a (24x)
+3V3	B12b (2x)
+3V3	B13 (4x)
+3V3	B14a (4x)
+3V3	B14b (2x)
+3V3	B16e (6x)
+3V3-AV	B09c (2x)
+3V3BUFF	B14b (4x)
+3V3DVB-MAIN	B02b (10x)
+3V3DVB-SUB	B03b (10x)
+3V3-ET-ANA	B13 (4x)
+3V3-ET-DIG	B13 (6x)
+3V3-FPGA	B08b (4x)
+3V3M	B08g (74x)
+3V3M	B16d (2x)
+3V3-P3	B08e (7x)
+3V3-SD1	B08d (3x)
+3V3-SP-GEN	B06a (5x)
+3V3-SP-GEN	B06c (2x)
+3V3-SP-GEN	B06d (1x)
+3V3-STANDBY	B05d (6x)
+3V3-STANDBY	B05e (32x)
+3V3-STANDBY	B08f (6x)
+3V3-STANDBY	B15a (4x)
+3V3-STANDBY	B16b (4x)
+3V3-STANDBY	B16c (6x)
+3V3-STANDBY	B16d (10x)
+3V3-UART	B12b (2x)
+3V3-VCCA	B14a (2x)
+3V3-VCCD	B14a (15x)
+5V	B02a (4x)
+5V	B02b (6x)
+5V	B03a (4x)
+5V	B03b (4x)
+5V	B05e (2x)
+5V	B09c (2x)
+5V	B10a (4x)
+5V	B11a (12x)
+5V	B16c (2x)
+5V	B16e (22x)
+5V	B16f (4x)
+5V2	B01a (4x)
+5V2	B05c (2x)
+5V2	B05e (12x)
+5V2	B08f (4x)
+5V2	B10d (4x)
+5V2	B11a (4x)
+5V2	B11b (10x)
+5V2	B12b (2x)
+5V2	B16b (2x)
+5V2	B16d (6x)
+5V2	B16f (2x)
+5V2S	B04b (2x)
+5V2S	B04f (2x)
+5V2S	B04i (4x)
+5V2S	B08f (8x)
+5V2S	B11b (2x)
+5V2S	B16e (2x)
+5V2-STBY_9V-STBY	B16e (1x)
+5V2-STBY_9V-STBY	B16f (1x)
+5VaM	B04c (3x)
+5VaS	B04g (3x)
+5V-AUD	B04b (1x)
+5V-AUD	B04i (2x)
+5VMPIF-MAIN	B04c (1x)
+5VMPIF-SUB	B04g (1x)
+5VREG	B02a (2x)
+5VREG	B03a (2x)
+5VTUN_MPIF	B03a (2x)
+5VTUN_MPIF	B04b (2x)
+5VTUN_MPIF	B04c (2x)
+5VTUN_MPIF	B04g (2x)
+5VTUN-MAIN	B02a (5x)
+5VTUN-SUB	B03a (7x)
+8V6	B16f (2x)
+8V6-SW	B01b (2x)
+8V6-SW	B03a (2x)
+8V6-SW	B04b (2x)
+8V6-SW	B04f (2x)
+8V6-SW	B05e (2x)
+8V6-SW	B06d (2x)
+8V6-SW	B08f (8x)
+8V6-SW	B16c (8x)
+8VaM	B04c (5x)
+8VaS	B04g (5x)
+8V-AUD	B04b (2x)
+8VMPIF-MAIN	B04b (1x)
+8VMPIF-MAIN	B04c (1x)
+8VMPIF-SUB	B04f (1x)
+8VMPIF-SUB	B04g (1x)
+AUDIO-POWER	B15a (7x)
+AUDIO-POWER	B15b (3x)
+AUDIO-POWER	B15c (1x)
+AUDIO-POWER	B15d (4x)
+SUB-OUTPUT	B15b (2x)
+SUB-OUTPUT	B15c (1x)
+VDISP_+1V2FPGA	B01c (2x)
+VDISP_+1V2FPGA	B08f (2x)
+VTUN	B01b (2x)
+VTUN	B03a (2x)
1V8-PLL	B09c (3x)
3V3-APLL	B09c (2x)
3V3-AVI	B09c (3x)
3V3-DIG	B09b (4x)
3V3-DIG	B09c (5x)
3V3-PLL	B09c (2x)
A(0)	B06b (2x)
A(1)	B06b (2x)
A(10)	B06b (2x)
A(11)	B06b (2x)
A(2)	B06b (2x)
A(3)	B06b (2x)
A(4)	B06b (2x)
A(5)	B06b (2x)
A(6)	B06b (2x)
A(7)	B06b (2x)
A(8)	B06b (2x)
A(9)	B06b (2x)
ADAC1	B04i (1x)
ADAC1	B05a (1x)
ADAC2	B04i (1x)
ADAC2	B05a (1x)
ADAC4	B04i (1x)
ADAC4	B05a (1x)
ADAC7	B04i (1x)
ADAC7	B05a (1x)
ADAC8	B04i (1x)
ADAC8	B05a (1x)
ADLE	B10a (1x)
ADLE	B10c (2x)
ADOE	B10a (1x)
ADOE	B10b (1x)
ADOE	B10c (2x)
AGC1	B04g (1x)
AGC1	B16a (1x)
AGC2	B04c (1x)
AGC2	B16a (1x)
AGC-IF-MAIN	B02a (1x)
AGC-IF-MAIN	B02b (1x)
AGC-IF-SUB	B03a (1x)
AGC-IF-SUB	B03b (1x)
AGC-MAIN	B02a (1x)
AGC-MAIN	B16a (1x)
AGC-SUB	B03a (1x)
AGC-SUB	B16a (1x)
AGC-TUN-MAIN	B02a (1x)
AGC-TUN-MAIN	B02b (1x)
AGC-TUN-SUB	B03a (1x)
AGC-TUN-SUB	B03b (1x)
AIN-5V	B09a (3x)
ALE	B05e (2x)
A-PLOP	B05c (1x)
A-PLOP	B07a (1x)
A-PLOP	B11a (2x)
A-PLOP	B11b (1x)
A-PLOP	B16c (1x)
ARX0-	B09a (1x)
ARX0-	B09b (1x)
ARX0+	B09a (1x)
ARX0+	B09b (1x)
ARX1-	B09a (1x)
ARX1-	B09b (1x)
ARX1+	B09a (1x)
ARX1+	B09b (1x)
ARX2-	B09a (1x)
ARX2-	B09b (1x)
ARX2+	B09a (1x)
ARX2+	B09b (1x)
ARXC-	B09a (1x)
ARXC-	B09b (1x)
ARXC+	B09a (1x)
ARXC+	B09b (1x)
ARX-DDC-SCL	B09a (2x)
ARX-DDC-SDA	B09a (2x)
ARX-HOTPLUG	B09a (2x)
ASDO	B08b (2x)
ASDO	B08c (1x)
AUDIO-CENTER-IN	B04d (1x)
AUDIO-CENTER-IN	B04h (1x)
AUDIO-CENTER-IN	B15d (1x)
AUDIO-HDPH-L	B04i (1x)
AUDIO-HDPH-L	B11b (1x)
AUDIO-HDPH-L-AP	B11b (1x)
AUDIO-HDPH-L-AP	B16b (1x)
AUDIO-HDPH-R	B04i (1x)
AUDIO-HDPH-R	B11b (1x)
AUDIO-HDPH-R-AP	B11b (1x)
AUDIO-HDPH-R-AP	B16b (1x)
AUDIO-IN1-L	B04d (1x)
AUDIO-IN1-L	B04h (1x)
AUDIO-IN1-L	B16c (1x)
AUDIO-IN1-R	B04d (1x)
AUDIO-IN1-R	B04h (1x)
AUDIO-IN1-R	B16c (1x)
AUDIO-IN2-L	B04d (1x)
AUDIO-IN2-L	B04h (1x)
AUDIO-IN2-L	B16c (1x)
AUDIO-IN2-R	B04d (1x)
AUDIO-IN2-R	B04h (1x)
AUDIO-IN2-R	B16c (1x)
AUDIO-IN3-L	B04d (1x)
AUDIO-IN3-L	B04h (1x)
AUDIO-IN3-L	B11a (1x)
AUDIO-IN3-R	B04d (1x)
AUDIO-IN3-R	B04h (1x)
AUDIO-IN3-R	B11a (1x)
AUDIO-IN4-L	B04d (1x)
AUDIO-IN4-L	B04h (1x)
AUDIO-IN4-L	B11a (1x)
AUDIO-IN4-R	B04d (1x)
AUDIO-IN4-R	B04h (1x)
AUDIO-IN4-R	B11a (1x)
AUDIO-IN5-L	B04d (1x)
AUDIO-IN5-L	B04h (1x)
AUDIO-IN5-L	B16b (1x)
AUDIO-IN5-R	B04d (1x)
AUDIO-IN5-R	B04h (1x)
AUDIO-IN5-R	B16b (1x)
AUDIO-L	B04i (1x)
AUDIO-L	B15a (1x)
AUDIO-L	B16c (1x)
AUDIO-OUT1-L	B04d (1x)
AUDIO-OUT1-L	B16c (1x)
AUDIO-OUT1-R	B04d (1x)
AUDIO-OUT1-R	B16c (1x)
AUDIO-OUT2-L	B04d (1x)
AUDIO-OUT2-L	B16c (1x)
AUDIO-OUT2-R	B04d (1x)
AUDIO-OUT2-R	B16c (1x)
AUDIO-OUT3-L	B04d (1x)
AUDIO-OUT3-L	B11a (1x)
AUDIO-OUT3-R	B04d (1x)
AUDIO-OUT3-R	B11a (1x)
-AUDIO-POWER	B15a (6x)
-AUDIO-POWER	B15b (5x)
-AUDIO-POWER	B15c (1x)
-AUDIO-POWER	B15d (4x)
AUDIO-R	B04i (1x)
AUDIO-R	B15a (1x)
AUDIO-R	B16c (1x)
AUDIO-SW	B04i (1x)
AUDIO-SW	B15d (1x)
AUDIO-SW	B16c (1x)
AV1_CVBS	B04a (1x)
AV1_CVBS	B04e (1x)
AV1_CVBS	B16c (1x)
AV1-AV5-AV6_B-PB	B04e (1x)
AV1-AV5-AV6_B-PB	B16c (1x)
AV1-AV5-AV6_B-PB-A	B04e (1x)
AV1-AV5-AV6_B-PB-A	B09b (1x)
AV1-AV5-AV6_B-PB-A	B11a (1x)
AV1-AV5-AV6_B-PB-D	B04a (1x)
AV1-AV5-AV6_B-PB-D	B04e (2x)
AV1-AV5-AV6_G-Y	B04e (1x)
AV1-AV5-AV6_G-Y	B16c (1x)
AV1-AV5-AV6_G-Y-A	B04e (1x)
AV1-AV5-AV6_G-Y-A	B09b (2x)
AV1-AV5-AV6_G-Y-A	B11a (1x)
AV1-AV5-AV6_G-Y-D	B04a (1x)
AV1-AV5-AV6_G-Y-D	B04e (2x)
AV1-AV5-AV6_R-PR	B04e (1x)
AV1-AV5-AV6_R-PR	B16c (1x)
AV1-AV5-AV6_R-PR-A	B04e (1x)
AV1-AV5-AV6_R-PR-A	B09b (1x)
AV1-AV5-AV6_R-PR-A	B11a (1x)
AV1-AV5-AV6_R-PR-D	B04a (1x)
AV1-AV5-AV6_R-PR-D	B04e (2x)
AV1-AV6_FBL-HSYNC	B05a (2x)
AV1-AV6_FBL-HSYNC	B16c (1x)
AV1-STATUS	B05e (2x)
AV1-STATUS	B16c (1x)
AV2_C	B04a (1x)
AV2_C	B04e (1x)
AV2_C	B16c (1x)
AV2_FBL	B05a (2x)
AV2_FBL	B16c (1x)
AV2_Y-CVBS	B04a (1x)
AV2_Y-CVBS	B04e (1x)
AV2_Y-CVBS	B16c (1x)
AV2-AV4_B-PB	B04e (2x)
AV2-AV4_B-PB	B16c (1x)
AV2-AV4_B-PB-A	B04e (1x)
AV2-AV4_B-PB-A	B09b (1x)
AV2-AV4_B-PB-D	B04a (1x)
AV2-AV4_B-PB-D	B04e (1x)
AV2-AV4_G-Y	B04e (2x)
AV2-AV4_G-Y	B16c (1x)
AV2-AV4_G-Y-A	B04e (1x)
AV2-AV4_G-Y-A	B09b (2x)
AV2-AV4_G-Y-D	B04a (1x)
AV2-AV4_G-Y-D	B04e (1x)
AV2-AV4_R-PR	B04e (2x)
AV2-AV4_R-PR	B16c (1x)
AV2-AV4_R-PR-A	B04e (1x)
AV2-AV4_R-PR-A	B09b (1x)
AV2-AV4_R-PR-D	B04a (1x)
AV2-AV4_R-PR-D	B04e (1x)
AV2-STATUS	B05e (2x)
AV2-STATUS	B16c (1x)
AV6_VSYNC	B05a (2x)
AV7_C	B04a (1x)
AV7_C	B04e (1x)
AV7_C	B16c (1x)
AV7_Y-CVBS	B04a (1x)
AV7_Y-CVBS	B04e (1x)
AV7_Y-CVBS	B16c (1x)
BA0	B06b (2x)
BA1	B06b (2x)
BACKLIGHT-CNTRL-OUT	B08f (1x)
BACKLIGHT-CNTRL-OUT	B16e (2x)
BACKLIGHT-CONTROL	B08e (1x)
BACKLIGHT-CONTROL	B08f (1x)
BACKLIGHT-CONTROL_RESET-P3	B05e (1x)
BACKLIGHT-CONTROL_RESET-P3	B07c (1x)
BACKLIGHT-CONTROL_RESET-P3	B08e (1x)
BACKLIGHT-CONTROL_RESET-P3	B08g (1x)
BIN-5V	B09a (3x)
BRX0-	B09a (1x)
BRX0-	B09b (1x)
BRX0+	B09a (1x)
BRX0+	B09b (1x)
BRX1-	B09a (1x)
BRX1-	B09b (1x)
BRX1+	B09a (1x)
BRX1+	B09b (1x)
BRX2-	B09a (1x)
BRX2-	B09b (1x)
BRX2+	B09a (1x)
BRX2+	B09b (1x)
BRXC-	B09a (1x)
BRXC-	B09b (1x)
BRXC+	B09a (1x)
BRXC+	B09b (1x)
BRX-DDC-SCL	B09a (1x)
BRX-DDC-SDA	B09a (1x)
BRX-HOTPLUG	B09a (2x)
B-VGA	B09b (1x)
B-VGA	B11a (1x)
CAS	B06b (2x)
CC-IN1	B15d (2x)
CC-IN2	B15d (2x)
CCLK	B08e (1x)
CCLK	B08g (3x)
CD1	B10a (3x)
CD2	B10a (3x)
CE1	B10a (2x)
CE2	B10a (2x)
CI-A(14)	B10a (1x)
CI-A(14)	B10c (1x)
CI-A(14)_MOCLKA-POD	B10a (2x)
CISEL-3V3	B10a (1x)
CISEL-3V3	B16a (1x)
CISEL-3V3-MAIN	B02b (1x)
CISEL-3V3-MAIN	B16a (1x)
CISEL-3V3-SUB	B03b (1x)
CISEL-3V3-SUB	B16a (1x)
CK	B06b (2x)
CKE	B06b (2x)
CKN	B06b (2x)
CLK-MPIF	B04b (1x)
CLK-MPIF	B04f (1x)
CLK-MPIF	B05a (1x)
C-MON-OUT	B07c (1x)
C-MON-OUT	B16c (1x)
COM-SND	B05e (2x)
CONF-DONE	B08b (1x)
CONF-DONE	B08c (1x)
CPROT-LR	B15a (3x)
CPROT-SW	B15b (3x)
CRX_POD-A(8)	B10a (2x)
CRX_POD-A(8)	B10b (1x)
CRX-POD	B10b (1x)
CSO-B	B08e (1x)
CSO-B	B08g (2x)
CTRL1-FPGA	B08c (1x)
CTRL1-FPGA	B08f (1x)
CTRL1-STBY	B05e (2x)
CTRL1-STBY	B08f (1x)
CTRL1-VIPER	B07c (1x)
CTRL1-VIPER	B08f (2x)
CTRL1-VIPER	B16e (1x)
CTRL2-FPGA	B08c (1x)
CTRL2-FPGA	B08f (1x)
CTRL2-VIPER	B07c (1x)
CTRL2-VIPER	B08f (1x)
CTRL3-FPGA	B08c (1x)
CTRL3-FPGA	B08f (1x)
CTRL3-STBY	B05e (2x)
CTRL3-STBY	B08f (1x)
CTRL4-FPGA	B08c (1x)
CTRL4-FPGA	B08f (1x)
CTRL4-P3	B08e (2x)
CTRL4-P3	B08f (1x)
CTRL4-STBY	B05e (1x)
CTRL4-STBY	B08f (1x)
CTRL4-VIPER	B07a (2x)
CTRL4-VIPER	B08c (1x)
CTRL4-VIPER	B08f (1x)
CTRL-DISP1	B08a (1x)
CTRL-DISP1	B08f (1x)
CTRL-DISP2	B08a (1x)
CTRL-DISP2	B08f (1x)
CTRL-DISP3	B08a (1x)
CTRL-DISP3	B08f (1x)
CTRL-DISP4	B08a (1x)
CTRL-DISP4	B08f (1x)
CTX_POD-A(4)	B10a (2x)
CTX_POD-A(4)	B10b (1x)
CTX-POD	B10b (1x)
CVBSOUTIF-MAIN	B04a (1x)
CVBSOUTIF-MAIN	B04c (1x)
CVBSOUTIF-SUB	B04e (1x)
CVBSOUTIF-SUB	B04g (1x)
CVBS-TER-OUT	B04c (1x)
CVBS-TER-OUT	B16c (1x)
DAC-CVBS	B07c (1x)
DAC-CVBS	B16c (1x)
DATA0	B08b (2x)
DATA0	B08c (1x)
DATA1N-MAIN	B04a (1x)
DATA1N-MAIN	B05a (1x)
DATA1N-SUB	B04e (1x)
DATA1N-SUB	B05a (1x)
DATA1P-MAIN	B04a (1x)
DATA1P-MAIN	B05a (1x)
DATA1P-SUB	B04e (1x)
DATA1P-SUB	B05a (1x)
DATA2N-MAIN	B04a (1x)
DATA2N-MAIN	B05a (1x)
DATA2N-SUB	B04e (1x)
DATA2N-SUB	B05a (1x)
DATA2P-MAIN	B04a (1x)
DATA2P-MAIN	B05a (1x)
DATA2P-SUB	B04e (1x)
DATA2P-SUB	B05a (1x)
DATA3N-MAIN	B04a (1x)
DATA3N-MAIN	B05a (1x)
DATA3N-SUB	B04e (1x)
DATA3N-SUB	B05a (1x)
DATA3P-MAIN	B04a (1x)
DATA3P-MAIN	B05a (1x)
DATA3P-SUB	B04e (1x)
DATA3P-SUB	B05a (1x)
DATDIR	B10a (1x)
DATDIR	B10c (1x)
DATOE	B10a (1x)
DATOE	B10c (1x)
DCLK	B08b (2x)
DCLK	B08c (1x)
DC-PROT-SW	B15a (1x)
DC-PROT-SW	B15b (1x)
DEBUG-BREAK	B05e (2x)
DEBUG-BREAK	B07a (1x)
DETECT-12V	B05e (2x)
DETECT-1V2	B05e (2x)
DETECT-2V5	B05e (2x)
DETECT-3V3	B05e (2x)
DETECT-5V	B05e (2x)
DETECT-8V6	B05e (2x)
DEV-CLRn	B08c (1x)
DONE	B08g (2x)
DQ(0)	B06b (2x)
DQ(0)	B07b (1x)
DQ(1)	B06b (2x)
DQ(1)	B07b (1x)
DQ(10)	B06b (2x)
DQ(10)	B07b (1x)
DQ(11)	B06b (2x)
DQ(11)	B07b (1x)
DQ(12)	B06b (2x)
DQ(12)	B07b (1x)
DQ(13)	B06b (2x)
DQ(13)	B07b (1x)
DQ(14)	B06b (2x)
DQ(14)	B07b (1x)
DQ(15)	B06b (2x)
DQ(15)	B07b (1x)
DQ(16)	B07b (1x)
DQ(17)	B07b (1x)
DQ(18)	B07b (1x)
DQ(19)	B07b (1x)
DQ(2)	B06b (2x)
DQ(2)	B07b (1x)
DQ(20)	B07b (1x)
DQ(21)	B07b (1x)
DQ(22)	B07b (1x)
DQ(23)	B07b (1x)
DQ(24)	B07b (1x)
DQ(25)	B07b (1x)
DQ(26)	B07b (1x)
DQ(27)	B07b (1x)
DQ(28)	B07b (1x)
DQ(29)	B07b (1x)
DQ(3)	B06b (2x)
DQ(3)	B07b (1x)
DQ(30)	B07b (1x)
DQ(31)	B07b (1x)
DQ(4)	B06b (2x)
DQ(4)	B07b (1x)
DQ(5)	B06b (2x)
DQ(5)	B07b (1x)
DQ(6)	B06b (2x)
DQ(6)	B07b (1x)
DQ(7)	B06b (2x)
DQ(7)	B07b (1x)
DQ(8)	B06b (2x)
DQ(8)	B07b (1x)
DQ(9)	B06b (2x)
DQ(9)	B07b (1x)
DQS0	B07b (2x)
DQS1	B07b (2x)
DQS2	B07b (2x)
DQS3	B07b (2x)
DRX_POD-A(9)	B10a (2x)
DRX_POD-A(9)	B10b (1x)
DRX-POD	B10b (1x)
DSNDL1	B04d (1x)
DSNDL1	B05a (1x)
DSNDL2	B04d (1x)
DSNDL2	B05a (1x)
DSNDR1	B04d (1x)
DSNDR1	B05a (1x)
DSNDR2	B04d (1x)
DSNDR2	B05a (1x)
DV1F-CLK	B05b (1x)
DV1F-CLK	B07c (1x)
DV1F-CLK	B10c (1x)
DV1F-DATA0	B05b (1x)
DV1F-DATA0	B07c (1x)
DV1F-DATA0	B10c (1x)
DV1F-DATA1	B05b (1x)
DV1F-DATA1	B07c (1x)
DV1F-DATA1	B10c (1x)
DV1F-DATA2	B05b (1x)
DV1F-DATA2	B07c (1x)
DV1F-DATA2	B10c (1x)
DV1F-DATA3	B05b (1x)
DV1F-DATA3	B07c (1x)
DV1F-DATA3	B10c (1x)
DV1F-DATA4	B05b (1x)
DV1F-DATA4	B07c (1x)
DV1F-DATA4	B10c (1x)
DV1F-DATA5	B05b (1x)
DV1F-DATA5	B07c (1x)
DV1F-DATA5	B10c (1x)
DV1F-DATA6	B05b (1x)
DV1F-DATA6	B07c (1x)
DV1F-DATA6	B10c (1x)
DV1F-DATA7	B05b (1x)
DV1F-DATA7	B07c (1x)
DV1F-DATA7	B10c (1x)
DV1F-DATA8_ERR	B05b (1x)
DV1F-DATA8_ERR	B07c (1x)
DV1F-DATA9_SOP	B05b (1x)
DV1F-DATA9_SOP	B07c (1x)
DV1F-DATA9_SOP	B10c (1x)
DV1F-VALID	B05b (1x)
DV1F-VALID	B07c (2x)
DV1F-VALID	B10c (1x)
DV2A-CLK	B05b (1x)
DV2A-CLK	B07c (1x)
DV2A-CLK	B14a (2x)
DV2A-DATA0_SOP	B05b (1x)
DV2A-DATA0_SOP	B07c (1x)
DV2A-DATA0_SOP	B14a (1x)
DV2A-DATA1_ERR	B05b (1x)
DV2A-DATA1_ERR	B07c (1x)
DV2A-DATA1_ERR	B14a (1x)
DV2A-DATA2_0	B14a (1x)
DV2A-DATA3_1	B14a (1x)
DV2A-DATA4_2	B05b (1x)
DV2A-DATA4_2	B07c (1x)
DV2A-DATA4_2	B14a (1x)
DV2A-DATA5_3	B05b (1x)
DV2A-DATA5_3	B07c (1x)
DV2A-DATA5_3	B14a (1x)
DV2A-DATA6_4	B05b (1x)
DV2A-DATA6_4	B07c (1x)
DV2A-DATA6_4	B14a (1x)
DV2A-DATA7_5	B05b (1x)
DV2A-DATA7_5	B07c (1x)
DV2A-DATA7_5	B14a (1x)
DV2A-DATA8_6	B05b (1x)
DV2A-DATA8_6	B07c (1x)
DV2A-DATA8_6	B14a (1x)
DV2A-DATA9_7	B05b (1x)
DV2A-DATA9_7	B07c (1x)
DV2A-DATA9_7	B14a (1x)
DV2A-VALID	B05b (1x)
DV2A-VALID	B07c (2x)
DV2A-VALID	B14a (1x)
DV3F-CLK	B05b (1x)
DV3F-CLK	B07c (1x)
DV3F-DATA0_SOP	B05b (1x)
DV3F-DATA0_SOP	B07c (1x)
DV3F-DATA1_ERR	B05b (1x)
DV3F-DATA1_ERR	B07c (1x)
DV3F-DATA2_0	B05b (1x)
DV3F-DATA2_0	B07c (1x)
DV3F-DATA3_1	B05b (1x)
DV3F-DATA3_1	B07c (1x)
DV3F-DATA4_2	B05b (1x)
DV3F-DATA4_2	B07c (1x)
DV3F-DATA5_3	B05b (1x)
DV3F-DATA5_3	B07c (1x)
DV3F-DATA6_4	B05b (1x)
DV3F-DATA6_4	B07c (1x)
DV3F-DATA7_5	B05b (1x)
DV3F-DATA7_5	B07c (1x)
DV3F-DATA8_6	B05b (1x)
DV3F-DATA8_6	B07c (1x)
DV3F-DATA9_7	B05b (1x)
DV3F-DATA9_7	B07c (1x)
DV3F-VALID	B05b (1x)
DV3F-VALID	B07c (2x)
DV4-CLK	B05b (1x)
DV4-CLK	B09b (1x)
DV4-DATA0_SOP	B05b (1x)
DV4-DATA0_SOP	B09b (1x)
DV4-DATA1_ERR	B05b (1x)
DV4-DATA1_ERR	B09b (1x)
DV4-DATA2_0	B05b (1x)
DV4-DATA2_0	B09b (1x)
DV4-DATA3_1	B05b (1x)
DV4-DATA3_1	B09b (1x)
DV4-DATA4_2	B05b (1x)
DV4-DATA4_2	B09b (1x)
DV4-DATA5_3	B05b (1x)
DV4-DATA5_3	B09b (1x)
DV4-DATA6_4	B05b (1x)
DV4-DATA6_4	B09b (1x)
DV4-DATA7_5	B05b (1x)
DV4-DATA7_5	B09b (1x)
DV4-DATA8_6	B05b (1x)
DV4-DATA8_6	B09b (1x)
DV4-DATA9_7	B05b (1x)
DV4-DATA9_7	B09b (1x)
DV4-VALID	B05b (1x)
DV4-VALID	B09b (1x)
DV5-DATA0_SOP	B05b (1x)
DV5-DATA0_SOP	B09b (1x)
DV5-DATA1_ERR	B05b (1x)
DV5-DATA1_ERR	B09b (1x)
DV5-DATA2_0	B05b (1x)
DV5-DATA2_0	B09b (1x)
DV5-DATA3_1	B05b (1x)
DV5-DATA3_1	B09b (1x)
DV5-DATA4_2	B05b (1x)
DV5-DATA4_2	B09b (1x)
DV5-DATA5_3	B05b (1x)
DV5-DATA5_3	B09b (1x)
DV5-DATA6_4	B05b (1x)
DV5-DATA6_4	B09b (1x)
DV5-DATA7_5	B05b (1x)
DV5-DATA7_5	B09b (1x)
DV5-DATA8_6	B05b (1x)
DV5-DATA8_6	B09b (1x)
DV5-DATA9_7	B05b (1x)
DV5-DATA9_7	B09b (1x)
DV-BOUT-0	B07c (1x)
DV-BOUT-0	B08a (1x)
DV-BOUT-0	B08c (1x)
DV-BOUT-0	B08g (1x)
DV-BOUT-0	B16f (1x)
DV-BOUT-1	B07c (1x)
DV-BOUT-1	B08a (1x)
DV-BOUT-1	B08c (1x)
DV-BOUT-1	B08g (1x)
DV-BOUT-1	B16f (1x)
DV-BOUT-2	B07c (1x)
DV-BOUT-2	B08a (1x)
DV-BOUT-2	B08c (1x)
DV-BOUT-2	B08g (1x)
DV-BOUT-2	B16f (1x)
DV-BOUT-3	B07c (1x)
DV-BOUT-3	B08a (1x)
DV-BOUT-3	B08c (1x)
DV-BOUT-3	B08g (1x)
DV-BOUT-3	B16f (1x)
DV-BOUT-4	B07c (1x)
DV-BOUT-4	B08a (1x)
DV-BOUT-4	B08c (1x)
DV-BOUT-4	B08g (1x)
DV-BOUT-4	B16f (1x)
DV-BOUT-5	B07c (1x)
DV-BOUT-5	B08a (1x)
DV-BOUT-5	B08c (1x)
DV-BOUT-5	B08g (1x)
DV-BOUT-5	B16f (1x)
DV-BOUT-6	B07c (1x)
DV-BOUT-6	B08a (1x)
DV-BOUT-6	B08c (1x)
DV-BOUT-6	B08g (1x)
DV-BOUT-6	B16f (1x)
DV-BOUT-7	B07c (1x)
DV-BOUT-7	B08a (1x)
DV-BOUT-7	B08c (1x)
DV-BOUT-7	B08g (1x)
DV-BOUT-7	B16f (1x)
DV-BOUT-8	B07c (1x)
DV-BOUT-8	B08a (1x)
DV-BOUT-8	B08c (1x)
DV-BOUT-8	B08g (1x)
DV-BOUT-8	B16f (1x)
DV-BOUT-9	B07c (1x)
DV-BOUT-9	B08a (1x)
DV-BOUT-9	B08c (1x)
DV-BOUT-9	B08g (1x)
DV-BOUT-9	B16f (1x)
DV-CLK-PLL	B08c (3x)
DV-FREF	B05b (1x)
DV-FREF	B09b (1x)
DV-GOUT-0	B07c (1x)
DV-GOUT-0	B08a (1x)
DV-GOUT-0	B08c (1x)
DV-GOUT-0	B08g (1x)
DV-GOUT-0	B16f (1x)
DV-GOUT-1	B07c (1x)
DV-GOUT-1	B08a (1x)
DV-GOUT-1	B08c (1x)
DV-GOUT-1	B08g (1x)
DV-GOUT-1	B16f (1x)
DV-GOUT-2	B07c (1x)
DV-GOUT-2	B08a (1x)
DV-GOUT-2	B08c (1x)
DV-GOUT-2	B08g (1x)
DV-GOUT-2	B16f (1x)
DV-GOUT-3	B07c (1x)
DV-GOUT-3	B08a (1x)
DV-GOUT-3	B08c (1x)
DV-GOUT-3	B08g (1x)
DV-GOUT-3	B16f (1x)
DV-GOUT-4	B07c (1x)
DV-GOUT-4	B08a (1x)
DV-GOUT-4	B08c (1x)
DV-GOUT-4	B08g (1x)
DV-GOUT-4	B16f (1x)
DV-GOUT-5	B07c (1x)
DV-GOUT-5	B08a (1x)
DV-GOUT-5	B08c (1x)
DV-GOUT-5	B08g (1x)
DV-GOUT-5	B16f (1x)
DV-GOUT-6	B07c (1x)
DV-GOUT-6	B08a (1x)
DV-GOUT-6	B08c (1x)
DV-GOUT-6	B08g (1x)
DV-GOUT-6	B16f (1x)
DV-GOUT-7	B07c (1x)
DV-GOUT-7	B08a (1x)
DV-GOUT-7	B08c (1x)
DV-GOUT-7	B08g (1x)
DV-GOUT-7	B16f (1x)
DV-GOUT-8	B07c (1x)
DV-GOUT-8	B08a (1x)
DV-GOUT-8	B08c (1x)
DV-GOUT-8	B08g (1x)
DV-GOUT-8	B16f (1x)
DV-GOUT-9	B07c (1x)
DV-GOUT-9	B08a (1x)
DV-GOUT-9	B08c (1x)
DV-GOUT-9	B08g (1x)
DV-GOUT-9	B16f (1x)
DV-HREF	B05b (1x)
DV-HREF	B09b (2x)
DV-OUT-CLK	B07c (1x)
DV-OUT-CLK	B08a (1x)
DV-OUT-CLK	B08c (1x)
DV-OUT-CLK	B08g (1x)
DV-OUT-CLK	B16f (1x)
DV-OUT-DE	B07c (1x)
DV-OUT-DE	B08a (1x)
DV-OUT-DE	B08c (1x)
DV-OUT-DE	B08g (1x)
DV-OUT-DE	B16f (1x)
DV-OUT-FF	B07c (1x)
DV-OUT-FF	B08a (1x)
DV-OUT-FF	B08c (1x)
DV-OUT-FF	B08g (1x)
DV-OUT-FF	B16f (1x)
DV-OUT-HS	B07c (1x)
DV-OUT-HS	B08a (1x)
DV-OUT-HS	B08c (1x)
DV-OUT-HS	B08g (1x)
DV-OUT-HS	B16f (1x)
DV-OUT-VS	B07c (1x)
DV-OUT-VS	B08a (1x)
DV-OUT-VS	B08c (1x)
DV-OUT-VS	B08g (1x)
DV-OUT-VS	B16e (1x)
DV-OUT-VS	B16f (1x)
DV-ROUT-0	B07c (1x)
DV-ROUT-0	B08a (1x)
DV-ROUT-0	B08c (1x)
DV-ROUT-0	B08g (1x)
DV-ROUT-0	B16f (1x)
DV-ROUT-1	B07c (1x)
DV-ROUT-1	B08a (1x)
DV-ROUT-1	B08c (1x)
DV-ROUT-1	B08g (1x)
DV-ROUT-1	B16f (1x)
DV-ROUT-2	B07c (1x)
DV-ROUT-2	B08a (1x)
DV-ROUT-2	B08c (1x)
DV-ROUT-2	B08g (1x)
DV-ROUT-2	B16f (1x)
DV-ROUT-3	B07c (1x)
DV-ROUT-3	B08a (1x)
DV-ROUT-3	B08c (1x)
DV-ROUT-3	B08g (1x)
DV-ROUT-3	B16f (1x)
DV-ROUT-4	B07c (1x)
DV-ROUT-4	B08a (1x)
DV-ROUT-4	B08c (1x)
DV-ROUT-4	B08g (1x)
DV-ROUT-4	B16f (1x)
DV-ROUT-5	B07c (1x)
DV-ROUT-5	B08a (1x)
DV-ROUT-5	B08c (1x)
DV-ROUT-5	B08g (1x)
DV-ROUT-5	B16f (1x)
DV-ROUT-6	B07c (1x)
DV-ROUT-6	B08a (1x)
DV-ROUT-6	B08c (1x)
DV-ROUT-6	B08g (1x)
DV-ROUT-6	B16f (1x)
DV-ROUT-7	B07c (1x)
DV-ROUT-7	B08a (1x)
DV-ROUT-7	B08c (1x)
DV-ROUT-7	B08g (1x)
DV-ROUT-7	B16f (1x)
DV-ROUT-8	B07c (1x)
DV-ROUT-8	B08a (1x)
DV-ROUT-8	B08c (1x)
DV-ROUT-8	B08g (1x)
DV-ROUT-8	B16f (1x)
DV-ROUT-9	B07c (1x)
DV-ROUT-9	B08a (1x)
DV-ROUT-9	B08c (1x)
DV-ROUT-9	B08g (1x)
DV-ROUT-9	B16f (1x)
DV-VREF	B05b (1x)
DV-VREF	B09b (2x)
EA	B05e (2x)
EJTAG-DETECT	B05e (2x)
EJTAG-DETECT	B12b (1x)
EJTAG-TCK	B07a (1x)
EJTAG-TCK	B12b (1x)
EJTAG-TDI	B07a (2x)
EJTAG-TDI	B12b (1x)
EJTAG-TDO	B07a (1x)
EJTAG-TDO	B12b (1x)
EJTAG-TMS	B07a (1x)
EJTAG-TMS	B12b (1x)
ENABLE-1V2	B01a (1x)
ENABLE-1V2	B05e (2x)
ENABLE-2V5	B01a (1x)
ENABLE-2V5	B05e (2x)
ENABLE-3V3	B01a (1x)
ENABLE-3V3	B01c (1x)
ENABLE-3V3	B05e (2x)
ENABLE-5V	B01c (2x)
ENABLE-5V	B08f (1x)
ETX_POD-A(6)	B10a (1x)
ETX_POD-A(6)	B10b (3x)
ETX-POD	B10b (1x)
FE-CLK	B10a (1x)
FE-CLK	B16a (1x)
FE-DATA0	B10a (1x)
FE-DATA0	B16a (1x)
FE-DATA1	B10a (1x)
FE-DATA1	B16a (1x)
FE-DATA2	B10a (1x)
FE-DATA2	B16a (1x)
FE-DATA3	B10a (1x)
FE-DATA3	B16a (1x)
FE-DATA4	B10a (1x)
FE-DATA4	B16a (1x)
FE-DATA5	B10a (1x)
FE-DATA5	B16a (1x)
FE-DATA6	B10a (1x)
FE-DATA6	B16a (1x)
FE-DATA7	B10a (1x)
FE-DATA7	B16a (1x)
FEEDBACK	B15a (3x)
FEEDBACK+SUB	B15b (2x)
FEEDBACK-LR	B15a (2x)
FEEDBACK-RL	B15a (2x)
FEEDBACK-SUB	B15b (2x)
FEEDBACK-SW	B15b (3x)
FE-MAIN-CLK	B02b (1x)
FE-MAIN-CLK	B16a (1x)
FE-MAIN-DATA0	B02b (1x)
FE-MAIN-DATA0	B16a (1x)
FE-MAIN-DATA1	B02b (1x)
FE-MAIN-DATA1	B16a (1x)
FE-MAIN-DATA2	B02b (1x)
FE-MAIN-DATA2	B16a (1x)
FE-MAIN-DATA3	B02b (1x)
FE-MAIN-DATA3	B16a (1x)
FE-MAIN-DATA4	B02b (1x)
FE-MAIN-DATA4	B16a (1x)
FE-MAIN-DATA5	B02b (1x)
FE-MAIN-DATA5	B16a (1x)
FE-MAIN-DATA6	B02b (1x)
FE-MAIN-DATA6	B16a (1x)
FE-MAIN-DATA7	B02b (1x)
FE-MAIN-DATA7	B16a (1x)
FE-MAIN-SOP	B02b (1x)
FE-MAIN-SOP	B16a (1x)
FE-MAIN-VALID	B02b (1x)
FE-MAIN-VALID	B16a (1x)
FE-SOP	B10a (1x)
FE-SOP	B16a (1x)
FE-SUB-CLK	B03b (1x)
FE-SUB-CLK	B16a (1x)
FE-SUB-DATA0	B03b (1x)
FE-SUB-DATA0	B16a (1x)
FE-SUB-DATA1	B03b (1x)
FE-SUB-DATA1	B16a (1x)
FE-SUB-DATA2	B03b (1x)
FE-SUB-DATA2	B16a (1x)
FE-SUB-DATA3	B03b (1x)
FE-SUB-DATA3	B16a (1x)
FE-SUB-DATA4	B03b (1x)
FE-SUB-DATA4	B16a (1x)
FE-SUB-DATA5	B03b (1x)
FE-SUB-DATA5	B16a (1x)
FE-SUB-DATA6	B03b (1x)
FE-SUB-DATA6	B16a (1x)
FE-SUB-DATA7	B03b (1x)
FE-SUB-DATA7	B16a (1x)
FE-SUB-SOP	B03b (1x)
FE-SUB-SOP	B16a (1x)
FE-SUB-VALID	B03b (1x)
FE-SUB-VALID	B16a (1x)
FE-VALID	B10a (1x)
FE-VALID	B16a (1x)
FPGA-TCK	B08g (1x)
FPGA-TCK	B16d (2x)
FPGA-TDI	B08g (1x)
FPGA-TDI	B16d (2x)
FPGA-TDO	B08g (1x)
FPGA-TDO	B16d (2x)
FPGA-TMS	B08g (1x)
FPGA-TMS	B16d (2x)
FREF-TUN-MAIN	B02a (1x)
FREF-TUN-MAIN	B02b (1x)
FREF-TUN-SUB	B03a (1x)
FREF-TUN-SUB	B03b (1x)
FRONT_C	B04a (1x)
FRONT_C	B04e (1x)
FRONT_C	B16b (1x)
FRONT_Y-CVBS	B04a (1x)
FRONT_Y-CVBS	B04e (1x)
FRONT_Y-CVBS	B16b (1x)
FRONT-DETECT	B05e (2x)
GLINK-IR-OUT	B07a (1x)
GLINK-IR-OUT	B11a (1x)
GLINK-RXD	B07a (1x)
GLINK-RXD	B11a (1x)
GLINK-RXD	B12b (1x)
GLINK-TXD	B07a (1x)
GLINK-TXD	B11a (1x)
GLINK-TXD	B12b (1x)
GND1V2	B01a (7x)
GND2V8	B01a (7x)
GND3V3	B01a (7x)
GND5V	B01c (7x)
GND-D	B04a (2x)
GND-D	B15a (56x)
GND-D	B15b (38x)
GND-D	B15c (8x)
GND-RX	B08e (5x)
GND-TX	B08e (6x)
G-VGA	B09b (1x)
G-VGA	B11a (1x)
HDMI-COAST	B07a (1x)
HDMI-COAST	B09b (1x)
HOLD	B08e (1x)
HOLD	B08g (2x)
HPD-HIRATE	B07a (1x)
HPD-HIRATE	B09a (2x)
H-SYNC-VGA	B09b (1x)
H-SYNC-VGA	B11a (1x)
HV-PRM-MAIN	B04a (1x)
HV-PRM-MAIN	B05a (1x)
HV-PRM-SUB	B04e (1x)
HV-PRM-SUB	B05a (1x)
I2S-BCLK-AVIP	B05a (1x)
I2S-BCLK-AVIP	B07c (1x)
I2S-BCLK-MAIN	B05a (1x)
I2S-BCLK-MAIN	B07c (1x)
I2S-BCLK-SUB	B05a (1x)
I2S-BCLK-SUB	B07c (1x)
I2S-MAIN-D	B05a (1x)
I2S-MAIN-D	B07c (1x)
I2S-MAIN-ND	B05a (1x)
I2S-MAIN-ND	B07c (1x)
I2S-MCH-CSW	B05a (1x)
I2S-MCH-CSW	B07c (1x)
I2S-MCH-LR	B05a (1x)
I2S-MCH-LR	B07c (1x)
I2S-MCH-SLR	B05a (1x)
I2S-MCH-SLR	B07c (1x)
I2S-SUB-D	B05a (1x)
I2S-SUB-D	B07c (1x)
I2S-SUB-ND	B05a (1x)
I2S-SUB-ND	B07c (1x)
I2S-WS-AVIP	B05a (1x)
I2S-WS-AVIP	B07c (1x)
I2S-WS-MAIN	B05a (1x)
I2S-WS-MAIN	B07c (1x)
I2S-WS-SUB	B05a (1x)
I2S-WS-SUB	B07c (1x)
IF-TER1	B04g (1x)
IF-TER1	B16a (1x)
IF-TER2	B04c (1x)
IF-TER2	B16a (1x)
IF-TER-MAIN	B02a (1x)
IF-TER-MAIN	B16a (1x)
IF-TER-SUB	B03a (1x)
IF-TER-SUB	B16a (1x)
INIT	B08g (2x)
INV-MUTE	B15a (2x)
INV-MUTE	B15b (1x)
IO-EXP-1	B05e (2x)
IO-EXP-1	B11b (1x)
IO-EXP-2	B05e (2x)
IO-EXP-2	B11b (1x)
IORD	B10a (2x)
IOWR	B10a (2x)
IRQ-AVIP	B05e (1x)
IRQ-AVIP	B07a (1x)
IRQ-AVIP-SUB	B05e (1x)
IRQ-AVIP-SUB	B07a (1x)
IRQ-ETHERNET	B07a (2x)
IRQ-ETHERNET	B13 (1x)
IRQ-FE-MAIN	B02b (1x)
IRQ-FE-MAIN	B07a (1x)
IRQ-FE-MAIN	B16a (1x)
IRQ-FE-SUB	B03b (1x)
IRQ-FE-SUB	B16a (1x)
IRQ-HD1	B05e (1x)
IRQ-HD1	B07a (2x)
IRQ-HD2	B05e (1x)
IRQ-HD2	B07a (2x)
IRQ-HIRATE	B05e (1x)
IRQ-HIRATE	B07a (2x)
IRQ-HIRATE	B09b (1x)
IRQ-IEEE1394	B07a (2x)
IRQ-IEEE1394	B14a (2x)
IRQ-MAIN	B07a (2x)
IRQ-MPIF	B04b (1x)
IRQ-MPIF	B07a (1x)
IRQ-MPIF-SUB	B04f (1x)
IRQ-MPIF-SUB	B07a (1x)
IRQ-POD	B07a (2x)
IRQ-POD	B10a (1x)
IRQ-SPIDER	B06a (2x)
IRQ-SPIDER	B07a (1x)
IRQ-SUB	B07a (2x)
IRQ-USB20	B07a (2x)
IRQ-USB20	B12a (2x)
ITX_POD-A(5)	B10a (1x)
ITX_POD-A(5)	B10b (3x)
ITX-POD	B10b (1x)
JTAG-TCK	B02b (1x)
JTAG-TCK	B03b (1x)
JTAG-TCK	B05e (1x)
JTAG-TCK	B06a (1x)
JTAG-TCK	B07a (3x)
JTAG-TCK	B08e (1x)
JTAG-TCK	B09b (1x)
JTAG-TCK	B10a (1x)
JTAG-TD-CON-VIPER	B07a (3x)
JTAG-TD-DVBMAIN-DVBSUB	B02b (1x)
JTAG-TD-DVBMAIN-DVBSUB	B03b (1x)
JTAG-TD-DVBSUB-HDMI	B03b (1x)
JTAG-TD-DVBSUB-HDMI	B09b (1x)
JTAG-TD-HDMI-POD	B09b (1x)
JTAG-TD-HDMI-POD	B10a (1x)
JTAG-TD-P3-SPIDER	B06a (1x)
JTAG-TD-P3-SPIDER	B08e (2x)
JTAG-TD-PNX2015-DVBMAIN	B02b (1x)
JTAG-TD-PNX2015-DVBMAIN	B05e (1x)
JTAG-TD-POD-CON	B07a (1x)
JTAG-TD-POD-CON	B10a (1x)
JTAG-TD-SPIDER-PNX2015	B05e (1x)
JTAG-TD-SPIDER-PNX2015	B06a (1x)
JTAG-TD-VIPER-P3	B07a (2x)
JTAG-TD-VIPER-P3	B08e (2x)
JTAG-TMS	B02b (1x)
JTAG-TMS	B03b (1x)
JTAG-TMS	B05e (1x)
JTAG-TMS	B06a (1x)
JTAG-TMS	B07a (3x)
JTAG-TMS	B08e (1x)
JTAG-TMS	B09b (1x)
JTAG-TMS	B10a (1x)
JTAG-TRST	B02b (1x)
JTAG-TRST	B03b (1x)
JTAG-TRST	B05e (1x)
JTAG-TRST	B06a (1x)
JTAG-TRST	B07a (2x)
JTAG-TRST	B08e (1x)
JTAG-TRST	B09b (1x)
JTAG-TRST	B10a (1x)
JTAG-TRST	B12b (1x)
KEYBOARD	B05e (2x)
KEYBOARD	B16b (1x)
LAMP-ON	B05e (2x)
LAMP-ON	B08f (1x)
LAMP-ON-OUT	B08f (1x)
LAMP-ON-OUT	B16e (1x)
LCD-PWR-ON	B08c (1x)
LCD-PWR-ON	B08f (1x)
LDQS	B06b (2x)
LED1	B05e (1x)
LED1	B08b (1x)
LED1	B08c (1x)
LED1	B16b (1x)
LED1-3V3	B05e (3x)
LED1B	B08b (1x)
LED1B	B08g (1x)
LED2	B05e (1x)
LED2	B08b (1x)
LED2	B08c (1x)
LED2	B16b (1x)
LED2-3V3	B05e (3x)
LED2B	B08b (1x)
LED2B	B08g (1x)
LED3	B08b (1x)
LED3	B08c (1x)
LED3B	B08b (1x)
LED3B	B08g (1x)
LED4	B08b (1x)
LED4	B08c (1x)
LED4B	B08b (1x)
LED4B	B08g (1x)
LED5	B08b (1x)
LED5	B08c (1x)
LED5B	B08b (1x)
LED5B	B08g (1x)
LEFT-OUTPUT	B15a (2x)
LEFT-OUTPUT	B15c (1x)
LIGHT-SENSOR	B05e (1x)
LIGHT-SENSOR	B16b (1x)
LINKON	B14a (2x)
LVDS-3V3	B05f (2x)
LVDS-PLL-3V3	B05f (2x)
M135-CLK	B07a (1x)
M135-CLK	B09b (1x)
M27-CLK	B05a (1x)
M27-CLK	B07a (1x)
M27-DISP	B05a (1x)
M27-DISP	B08c (2x)
M27-DISP	B08g (1x)
M27-PNX	B05a (1x)
M27-PNX	B05e (1x)
M27-POD	B05a (1x)
M27-POD	B10a (1x)
MDIA(0)	B10a (2x)
MDIA(1)	B10a (2x)
MDIA(2)	B10a (2x)
MDIA(3)	B10a (2x)
MDIA(4)	B10a (2x)
MDIA(5)	B10a (2x)
MDIA(6)	B10a (2x)
MDIA(7)	B10a (2x)
MDOA(0)	B10a (3x)
MDOA(1)	B10a (3x)
MDOA(2)	B10a (3x)
MDOA(3)	B10a (3x)
MDOA(4)	B10a (3x)
MDOA(5)	B10a (3x)
MDOA(6)	B10a (3x)
MDOA(7)	B10a (3x)
MICLKA	B10a (2x)
MISO	B08e (1x)
MISO	B08g (3x)
MISTRTA	B10a (2x)
MIVALA	B10a (2x)
MM_A0	B07b (3x)
MM_A1	B07b (3x)
MM_A10	B07b (3x)
MM_A11	B07b (3x)
MM_A12	B07b (3x)
MM_A2	B07b (3x)
MM_A3	B07b (3x)
MM_A4	B07b (3x)
MM_A5	B07b (3x)
MM_A6	B07b (3x)
MM_A7	B07b (3x)
MM_A8	B07b (3x)
MM_A9	B07b (3x)
MM_BA0	B07b (3x)
MM_BA1	B07b (3x)
MM_CAS	B07b (3x)
MM_CKE	B07b (3x)
MM_CLK_N	B07b (3x)
MM_CLK_P	B07b (3x)
MM_CS0	B07b (3x)
MM_CS1	B07b (1x)
MM_DATA_0	B07b (1x)
MM_DATA_1	B07b (1x)
MM_DATA_10	B07b (1x)
MM_DATA_11	B07b (1x)
MM_DATA_12	B07b (1x)
MM_DATA_13	B07b (1x)
MM_DATA_14	B07b (1x)
MM_DATA_15	B07b (1x)
MM_DATA_16	B07b (2x)
MM_DATA_17	B07b (2x)
MM_DATA_18	B07b (2x)
MM_DATA_19	B07b (2x)
MM_DATA_2	B07b (1x)
MM_DATA_20	B07b (2x)
MM_DATA_21	B07b (2x)
MM_DATA_22	B07b (2x)
MM_DATA_23	B07b (2x)
MM_DATA_24	B07b (2x)
MM_DATA_25	B07b (2x)
MM_DATA_26	B07b (2x)
MM_DATA_27	B07b (2x)
MM_DATA_28	B07b (2x)
MM_DATA_29	B07b (2x)
MM_DATA_3	B07b (1x)
MM_DATA_30	B07b (2x)
MM_DATA_31	B07b (2x)
MM_DATA_4	B07b (1x)
MM_DATA_5	B07b (1x)
MM_DATA_6	B07b (1x)
MM_DATA_7	B07b (1x)
MM_DATA_8	B07b (1x)
MM_DATA_9	B07b (1x)
MM_DQM_0	B07b (2x)
MM_DQM_1	B07b (2x)
MM_DQM_2	B07b (2x)
MM_DQM_3	B07b (2x)
MM_DQS0	B07b (2x)
MM_DQS1	B07b (2x)
MM_DQS2	B07b (2x)
MM_DQS3	B07b (2x)
MM_RAS	B07b (3x)
MM_WE	B07b (3x)
MOCLKA	B10a (3x)
MOSI	B08e (1x)
MOSI	B08g (2x)
MOSTRTA	B10a (3x)
MOVALA	B10a (3x)
MUTE	B15a (3x)
MUTE	B15b (2x)

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SSB: SRP Overview Part 2

Net Name	Diagram
NAND-AD0	B10d (4x)
NAND-AD1	B10d (4x)
NAND-AD2	B10d (4x)
NAND-AD3	B10d (3x)
NAND-AD4	B10d (4x)
NAND-AD5	B10d (3x)
NAND-AD6	B10d (4x)
NAND-AD7	B10d (4x)
nCONFIG	B08b (1x)
nCONFIG	B08c (1x)
nCONFIG	B08g (1x)
nCSO	B08b (2x)
nCSO	B08c (1x)
N-IF-MAIN	B02a (1x)
N-IF-MAIN	B02b (1x)
N-IF-SUB	B03a (1x)
N-IF-SUB	B03b (1x)
OE	B10a (2x)
ON-MODE	B05e (8x)
ON-MODE	B08f (4x)
ON-MODE	B16d (8x)
OUT	B15b (1x)
OUT	B15d (2x)
OUTN	B15b (1x)
OUTN	B15d (1x)
P0.0	B05e (1x)
P0.1	B05e (1x)
P0.2	B05e (1x)
P0.3	B05e (1x)
P0.4	B05e (1x)
P0.5	B05e (1x)
P0.6	B05e (1x)
P0.7	B05e (1x)
P2.0	B05e (1x)
P2.1	B05e (1x)
P2.2	B05e (1x)
P2.3	B05e (1x)
P2.4	B05e (1x)
P2.5	B05e (1x)
P2.6	B05e (1x)
P2.7	B05e (1x)
P50	B05e (1x)
P50	B16c (1x)
P50-3V3	B05e (3x)
P50-HDMI	B05e (1x)
P50-HDMI	B09a (2x)
P50-HDMI-3V3	B05e (3x)
PARX-DDC-SCL	B09a (1x)
PARX-DDC-SCL	B09b (1x)
PARX-DDC-SDA	B09a (1x)
PARX-DDC-SDA	B09b (1x)
PBRX-DDC-SCL	B09a (1x)
PBRX-DDC-SCL	B09b (1x)
PBRX-DDC-SDA	B09a (1x)
PBRX-DDC-SDA	B09b (1x)
PCI-AD0	B07a (1x)
PCI-AD0	B12a (1x)
PCI-AD0	B12b (1x)
PCI-AD0	B13 (1x)
PCI-AD0	B14b (2x)
PCI-AD1	B07a (1x)
PCI-AD1	B12a (1x)
PCI-AD1	B12b (1x)
PCI-AD1	B13 (1x)
PCI-AD1	B14b (2x)
PCI-AD10	B07a (1x)
PCI-AD10	B12a (1x)
PCI-AD10	B12b (1x)
PCI-AD10	B13 (1x)
PCI-AD10	B14b (2x)
PCI-AD11	B07a (1x)
PCI-AD11	B12a (1x)
PCI-AD11	B12b (1x)
PCI-AD11	B13 (1x)
PCI-AD11	B14b (2x)
PCI-AD12	B07a (1x)
PCI-AD12	B12a (1x)
PCI-AD12	B12b (1x)
PCI-AD12	B13 (1x)
PCI-AD12	B14b (2x)
PCI-AD13	B07a (1x)
PCI-AD13	B12a (1x)
PCI-AD13	B12b (1x)
PCI-AD13	B13 (1x)
PCI-AD13	B14b (2x)
PCI-AD14	B07a (1x)
PCI-AD14	B12a (1x)
PCI-AD14	B12b (1x)
PCI-AD14	B13 (1x)
PCI-AD14	B14b (2x)
PCI-AD15	B07a (1x)
PCI-AD15	B12a (1x)
PCI-AD15	B12b (1x)
PCI-AD15	B13 (1x)
PCI-AD15	B14b (2x)
PCI-AD16	B07a (2x)
PCI-AD16	B12a (1x)
PCI-AD16	B12b (1x)
PCI-AD16	B13 (1x)
PCI-AD16	B14b (2x)
PCI-AD17	B07a (1x)
PCI-AD17	B12a (1x)
PCI-AD17	B12b (1x)
PCI-AD17	B13 (1x)
PCI-AD17	B14b (2x)
PCI-AD18	B07a (1x)
PCI-AD18	B12a (1x)
PCI-AD18	B12b (1x)
PCI-AD18	B13 (1x)
PCI-AD18	B14b (2x)
PCI-AD19	B07a (1x)
PCI-AD19	B12a (1x)
PCI-AD19	B12b (1x)
PCI-AD19	B13 (1x)
PCI-AD19	B14b (2x)
PCI-AD2	B07a (1x)
PCI-AD2	B12a (1x)
PCI-AD2	B12b (1x)
PCI-AD2	B13 (1x)
PCI-AD2	B14b (1x)
PCI-AD20	B07a (1x)
PCI-AD20	B12a (1x)
PCI-AD20	B12b (1x)
PCI-AD20	B13 (1x)
PCI-AD20	B14b (2x)
PCI-AD21	B07a (1x)
PCI-AD21	B12a (1x)
PCI-AD21	B12b (1x)
PCI-AD21	B13 (1x)
PCI-AD21	B14b (2x)
PCI-AD22	B07a (1x)
PCI-AD22	B12a (2x)
PCI-AD22	B12b (1x)
PCI-AD22	B13 (1x)
PCI-AD22	B14b (2x)
PCI-AD23	B07a (1x)
PCI-AD23	B12a (1x)
PCI-AD23	B12b (1x)
PCI-AD23	B13 (2x)
PCI-AD23	B14b (2x)
PCI-AD24	B07a (1x)
PCI-AD24	B10c (1x)
PCI-AD24	B10d (2x)
PCI-AD24	B12a (1x)
PCI-AD24	B12b (1x)
PCI-AD24	B13 (1x)
PCI-AD24	B14b (2x)
PCI-AD25	B07a (1x)
PCI-AD25	B10c (1x)
PCI-AD25	B10d (2x)
PCI-AD25	B12a (1x)
PCI-AD25	B12b (1x)
PCI-AD25	B13 (1x)
PCI-AD25	B14b (2x)
PCI-AD26	B07a (1x)
PCI-AD26	B10c (1x)
PCI-AD26	B10d (2x)
PCI-AD26	B12a (1x)
PCI-AD26	B12b (1x)
PCI-AD26	B13 (1x)
PCI-AD26	B14b (2x)
PCI-AD27	B07a (1x)
PCI-AD27	B10c (1x)
PCI-AD27	B10d (2x)
PCI-AD27	B12a (1x)
PCI-AD27	B12b (1x)
PCI-AD27	B13 (1x)
PCI-AD27	B14b (2x)
PCI-AD28	B07a (1x)
PCI-AD28	B10c (1x)
PCI-AD28	B10d (2x)
PCI-AD28	B12a (1x)
PCI-AD28	B12b (1x)
PCI-AD28	B13 (1x)
PCI-AD28	B14b (2x)
PCI-AD29	B07a (1x)
PCI-AD29	B10c (1x)
PCI-AD29	B10d (2x)
PCI-AD29	B12a (1x)
PCI-AD29	B12b (1x)
PCI-AD29	B13 (1x)
PCI-AD29	B14b (2x)
PCI-AD3	B07a (1x)
PCI-AD3	B12a (1x)
PCI-AD3	B12b (1x)
PCI-AD3	B13 (1x)
PCI-AD3	B14b (1x)
PCI-AD30	B07a (1x)
PCI-AD30	B10c (1x)
PCI-AD30	B10d (2x)
PCI-AD30	B12a (1x)
PCI-AD30	B12b (1x)
PCI-AD30	B13 (1x)
PCI-AD30	B14b (2x)
PCI-AD31	B07a (1x)
PCI-AD31	B10c (1x)
PCI-AD31	B10d (2x)
PCI-AD31	B12a (1x)
PCI-AD31	B12b (1x)
PCI-AD31	B13 (1x)
PCI-AD31	B14b (2x)
PCI-AD4	B07a (1x)
PCI-AD4	B12a (1x)
PCI-AD4	B12b (1x)
PCI-AD4	B13 (1x)
PCI-AD4	B14b (1x)
PCI-AD5	B07a (1x)
PCI-AD5	B12a (1x)
PCI-AD5	B12b (1x)
PCI-AD5	B13 (1x)
PCI-AD5	B14b (1x)
PCI-AD6	B07a (1x)
PCI-AD6	B12a (1x)
PCI-AD6	B12b (1x)
PCI-AD6	B13 (1x)
PCI-AD6	B14b (1x)
PCI-AD7	B07a (1x)
PCI-AD7	B12a (1x)
PCI-AD7	B12b (1x)
PCI-AD7	B13 (1x)
PCI-AD7	B14b (1x)
PCI-AD8	B07a (1x)
PCI-AD8	B12a (1x)
PCI-AD8	B12b (1x)
PCI-AD8	B13 (1x)
PCI-AD8	B14b (1x)
PCI-AD9	B07a (1x)
PCI-AD9	B12a (1x)
PCI-AD9	B12b (1x)
PCI-AD9	B13 (1x)
PCI-AD9	B14b (1x)
PCI-CBE0	B07a (1x)
PCI-CBE0	B12a (1x)
PCI-CBE0	B12b (1x)
PCI-CBE0	B13 (1x)
PCI-CBE1	B07a (1x)
PCI-CBE1	B12a (1x)
PCI-CBE1	B12b (1x)
PCI-CBE1	B13 (1x)
PCI-CBE1	B14b (2x)
PCI-CBE2	B07a (1x)
PCI-CBE2	B12a (1x)
PCI-CBE2	B12b (1x)
PCI-CBE2	B13 (1x)
PCI-CBE2	B14b (2x)
PCI-CBE3	B07a (1x)
PCI-CBE3	B12a (1x)
PCI-CBE3	B12b (1x)
PCI-CBE3	B13 (1x)
PCI-CLK-ETHERNET	B07a (2x)
PCI-CLK-ETHERNET	B13 (1x)
PCI-CLK-SLOT	B07a (2x)
PCI-CLK-SLOT	B12b (1x)
PCI-CLK-SPIDER	B06a (1x)
PCI-CLK-SPIDER	B07a (2x)
PCI-CLK-USB20	B07a (2x)
PCI-CLK-USB20	B12a (1x)
PCI-CLK-VPR	B07a (3x)
PCI-DEVSEL	B07a (1x)
PCI-DEVSEL	B12a (1x)
PCI-DEVSEL	B12b (1x)
PCI-DEVSEL	B13 (1x)
PCI-FRAME	B07a (1x)
PCI-FRAME	B12a (1x)
PCI-FRAME	B12b (1x)
PCI-FRAME	B13 (1x)
PCI-GNT	B07a (2x)
PCI-GNT	B12a (2x)
PCI-GNT	B12b (1x)
PCI-GNT-A	B07a (1x)
PCI-GNT-A	B13 (2x)
PCI-INTA	B07a (2x)
PCI-INTA	B12b (1x)
PCI-IRDY	B07a (1x)
PCI-IRDY	B12a (1x)
PCI-IRDY	B12b (1x)
PCI-IRDY	B13 (1x)
PCI-PAR	B07a (1x)
PCI-PAR	B12a (1x)
PCI-PAR	B12b (1x)
PCI-PAR	B13 (1x)
PCI-PERR	B07a (1x)
PCI-PERR	B12a (1x)
PCI-PERR	B12b (1x)
PCI-PERR	B13 (1x)
PCI-REQ	B07a (2x)
PCI-REQ	B12a (2x)
PCI-REQ	B12b (1x)
PCI-REQ-A	B07a (2x)
PCI-REQ-A	B13 (1x)
PCI-REQ-B	B07a (2x)
PCI-REQ-B	B10a (1x)
PCI-SERR	B07a (1x)
PCI-SERR	B12a (1x)
PCI-SERR	B12b (1x)
PCI-SERR	B13 (1x)
PCI-STOP	B07a (1x)
PCI-STOP	B12a (1x)
PCI-STOP	B12b (1x)
PCI-STOP	B13 (1x)
PCI-TRDY	B07a (1x)
PCI-TRDY	B12a (1x)
PCI-TRDY	B12b (1x)
PCI-TRDY	B13 (1x)
PDIR	B10a (1x)
PDIR	B10b (2x)
PDOE	B10a (1x)
PDOE	B10b (1x)
PHY-D(0)	B14a (2x)
PHY-D(1)	B14a (2x)
PHY-D(2)	B14a (2x)
PHY-D(3)	B14a (2x)
PHY-D(4)	B14a (2x)
PHY-D(5)	B14a (2x)
PHY-D(6)	B14a (2x)
PHY-D(7)	B14a (2x)
P-IF-MAIN	B02a (1x)
P-IF-MAIN	B02b (1x)
P-IF-SUB	B03a (1x)
P-IF-SUB	B03b (1x)
PLL-1V2	B05f (2x)
PLL-3V3	B05f (2x)
PLL-OUT	B07a (3x)
PN-BOUT-0	B05b (1x)
PN-BOUT-0	B16f (1x)
PN-BOUT-1	B05b (1x)
PN-BOUT-1	B16f (1x)
PN-BOUT-2	B05b (1x)
PN-BOUT-2	B16f (1x)
PN-BOUT-3	B05b (1x)
PN-BOUT-3	B16f (1x)
PN-BOUT-4	B05b (1x)
PN-BOUT-4	B16f (1x)
PN-BOUT-5	B05b (1x)
PN-BOUT-5	B16f (1x)
PN-BOUT-6	B05b (1x)
PN-BOUT-6	B16f (1x)
PN-BOUT-7	B05b (1x)
PN-BOUT-7	B16f (1x)
PN-BOUT-8	B05b (1x)
PN-BOUT-8	B16f (1x)
PN-BOUT-9	B05b (1x)
PN-BOUT-9	B16f (1x)
PN-GOUT-0	B05b (1x)
PN-GOUT-0	B16f (1x)
PN-GOUT-1	B05b (1x)
PN-GOUT-1	B16f (1x)
PN-GOUT-2	B05b (1x)
PN-GOUT-2	B16f (1x)
PN-GOUT-3	B05b (1x)
PN-GOUT-3	B16f (1x)
PN-GOUT-4	B05b (1x)
PN-GOUT-4	B16f (1x)
PN-GOUT-5	B05b (1x)
PN-GOUT-5	B16f (1x)
PN-GOUT-6	B05b (1x)
PN-GOUT-6	B16f (1x)
PN-GOUT-7	B05b (1x)
PN-GOUT-7	B16f (1x)
PN-GOUT-8	B05b (1x)
PN-GOUT-8	B16f (1x)
PN-GOUT-9	B05b (1x)
PN-GOUT-9	B16f (1x)
PN-OUT-CLK	B05b (1x)
PN-OUT-CLK	B16f (1x)
PN-OUT-DE	B05b (1x)
PN-OUT-DE	B16f (1x)
PN-OUT-FF	B05b (1x)
PN-OUT-FF	B16f (1x)
PN-OUT-HS	B05b (1x)
PN-OUT-HS	B16f (1x)
PN-OUT-VS	B05b (1x)
PN-OUT-VS	B16f (1x)
PN-ROUT-0	B05b (1x)
PN-ROUT-0	B16f (1x)
PN-ROUT-1	B05b (1x)
PN-ROUT-1	B16f (1x)
PN-ROUT-2	B05b (1x)
PN-ROUT-2	B16f (1x)
PN-ROUT-3	B05b (1x)
PN-ROUT-3	B16f (1x)
PN-ROUT-4	B05b (1x)
PN-ROUT-4	B16f (1x)
PN-ROUT-5	B05b (1x)
PN-ROUT-5	B16f (1x)
PN-ROUT-6	B05b (1x)
PN-ROUT-6	B16f (1x)
PN-ROUT-7	B05b (1x)
PN-ROUT-7	B16f (1x)
PN-ROUT-8	B05b (1x)
PN-ROUT-8	B16f (1x)
PN-ROUT-9	B05b (1x)
PN-ROUT-9	B16f (1x)
PNX-MA-0	B05d (2x)
PNX-MA-1	B05d (2x)
PNX-MA-10	B05d (2x)
PNX-MA-11	B05d (2x)
PNX-MA-12	B05d (2x)
PNX-MA-2	B05d (2x)
PNX-MA-3	B05d (2x)
PNX-MA-4	B05d (2x)
PNX-MA-5	B05d (2x)
PNX-MA-6	B05d (2x)
PNX-MA-7	B05d (2x)
PNX-MA-8	B05d (2x)
PNX-MA-9	B05d (2x)
PNX-MBA0	B05d (2x)
PNX-MBA1	B05d (2x)
PNX-MCAS	B05d (2x)
PNX-MCKE	B05d (2x)
PNX-MCLK-N	B05d (2x)
PNX-MCLK-P	B05d (2x)
PNX-MCS-0	B05d (2x)
PNX-MDATA-0	B05d (2x)
PNX-MDATA-1	B05d (2x)
PNX-MDATA-10	B05d (2x)
PNX-MDATA-11	B05d (2x)
PNX-MDATA-12	B05d (2x)
PNX-MDATA-13	B05d (2x)
PNX-MDATA-14	B05d (2x)
PNX-MDATA-15	B05d (2x)
PNX-MDATA-2	B05d (2x)
PNX-MDATA-3	B05d (2x)
PNX-MDATA-4	B05d (2x)
PNX-MDATA-5	B05d (2x)
PNX-MDATA-6	B05d (2x)
PNX-MDATA-7	B05d (2x)
PNX-MDATA-8	B05d (2x)
PNX-MDATA-9	B05d (2x)
PNX-MDQM-0	B05d (2x)
PNX-MDQM-1	B05d (2x)
PNX-MDQS-0	B05d (1x)
PNX-MDQS-1	B05d (1x)
PNX-MRAS	B05d (2x)
PNX-MWE	B05d (2x)
POD-A(0)	B10a (1x)
POD-A(0)	B10c (1x)
POD-A(1)	B10a (1x)
POD-A(1)	B10c (1x)
POD-A(10)	B10a (1x)
POD-A(10)	B10c (1x)
POD-A(11)	B10a (1x)
POD-A(11)	B10c (1x)
POD-A(12)	B10a (1x)
POD-A(12)	B10c (1x)
POD-A(13)	B10a (1x)
POD-A(13)	B10c (1x)
POD-A(2)	B10a (1x)
POD-A(2)	B10c (1x)
POD-A(3)	B10a (1x)
POD-A(3)	B10c (1x)
POD-A(4)	B10a (1x)
POD-A(4)	B10b (1x)
POD-A(4)	B10c (1x)
POD-A(5)	B10b (2x)
POD-A(5)	B10c (1x)
POD-A(6)	B10b (2x)
POD-A(6)	B10c (1x)
POD-A(7)	B10b (2x)
POD-A(7)	B10c (1x)
POD-A(8)	B10a (1x)
POD-A(8)	B10b (1x)
POD-A(8)	B10c (1x)
POD-A(9)	B10a (1x)
POD-A(9)	B10b (1x)
POD-A(9)	B10c (1x)
POD-CLK	B10a (1x)
POD-CLK	B10c (1x)
POD-D(0)	B10a (1x)
POD-D(0)	B10c (1x)
POD-D(1)	B10a (1x)
POD-D(1)	B10c (1x)
POD-D(2)	B10a (1x)
POD-D(2)	B10c (1x)
POD-D(3)	B10a (1x)
POD-D(3)	B10c (1x)
POD-D(4)	B10a (1x)
POD-D(4)	B10c (1x)
POD-D(5)	B10a (1x)
POD-D(5)	B10c (1x)
POD-D(6)	B10a (1x)
POD-D(6)	B10c (1x)
POD-D(7)	B10a (1x)
POD-D(7)	B10c (1x)
POD-DATA0	B10a (1x)
POD-DATA0	B10c (1x)
POD-DATA1	B10a (1x)
POD-DATA1	B10c (1x)
POD-DATA2	B10a (1x)
POD-DATA2	B10c (1x)
POD-DATA3	B10a (1x)
POD-DATA3	B10c (1x)
POD-DATA4	B10a (1x)
POD-DATA4	B10c (1x)
POD-DATA5	B10a (1x)
POD-DATA5	B10c (1x)
POD-DATA6	B10a (1x)
POD-DATA6	B10c (1x)
POD-DATA7	B10a (1x)
POD-DATA7	B10c (1x)
POD-MODE	B05e (2x)
POD-MODE	B08f (1x)
POD-MODE	B16d (1x)
POD-SOP	B10a (1x)
POD-SOP	B10c (1x)
POD-VALID	B10a (1x)
POD-VALID	B10c (1x)
POD-VCC	B10a (6x)
POD-VPP	B10a (3x)
POWERDOWN-1394	B07a (1x)
POWERDOWN-1394	B09b (1x)
POWERDOWN-1394	B14a (1x)
POWER-OK-DISPLAY	B05e (2x)
POWER-OK-DISPLAY	B16e (1x)
POWER-OK-DISPLAY-3V3	B05e (2x)
POWER-OK-PLATFORM	B07a (1x)
POWER-OK-PLATFORM	B16e (1x)
POWER-OK-PLATFORM-3V3	B05e (1x)
POWER-OK-PLATFORM-3V3	B07a (2x)
PROT_DC	B01a (4x)
PROT_DC	B01c (1x)
PROT-AUDIOSUPPLY	B05e (2x)
PROT-AUDIOSUPPLY	B15a (1x)
PROT-AUDIOSUPPLY	B15c (1x)
PROT-AUDIOSUPPLY	B16c (1x)
PROT-AUDIOSUPPLY	B16e (1x)
PSEN	B05e (2x)
PWM-3	B08e (2x)
PWM-OR	B08e (2x)
QTX_POD-A(7)	B10a (2x)
QTX_POD-A(7)	B10b (3x)
QTX-POD	B10b (1x)
RAS	B06b (2x)
RC	B05e (2x)
RC	B16b (1x)
RDY_IRQA	B10a (3x)
REG	B10a (2x)
REGIMBEAU	B07a (2x)
REGIMBEAU	B16c (1x)
RESET-1394	B07a (1x)
RESET-1394	B14a (2x)
RESET-AUDIO	B05c (1x)
RESET-AUDIO	B05e (2x)
RESET-ETHERNET	B07a (1x)
RESET-ETHERNET	B13 (2x)
RESET-FE-MAIN	B02b (1x)
RESET-FE-MAIN	B07a (2x)
RESET-FE-MAIN	B16a (1x)
RESET-FE-SUB	B03b (1x)
RESET-FE-SUB	B16a (1x)
RESET-MAIN-NVM	B05d (1x)
RESET-MAIN-NVM	B05e (2x)
RESET-MIPS	B05e (3x)
RESET-MIPS	B07a (1x)
RESET-PNX2015	B05e (3x)
RESET-POD-CI	B07a (1x)
RESET-POD-CI	B10a (2x)
RESET-STBY	B05e (1x)
RESET-STBY	B16d (1x)
RESET-SYSTEM	B05e (2x)
RESET-SYSTEM	B07a (1x)
RESET-SYSTEM	B12b (1x)
RESET-TM	B06a (1x)
RESET-TM	B07a (1x)
RESET-USB20	B07a (1x)
RESET-USB20	B12a (2x)
RIGHT-OUTPUT	B15a (2x)
RIGHT-OUTPUT	B15c (1x)
RSTA	B10a (2x)
R-VGA	B09b (1x)
R-VGA	B11a (1x)
RXD	B10d (2x)
RXD	B12b (1x)
RXD	B16c (1x)
RXD-UP	B05e (1x)
RXD-UP	B10d (1x)
RXD-VIPER	B07a (1x)
RXD-VIPER	B10d (2x)
RXP3CLK	B08a (1x)
RXP3CLK	B08e (1x)
RXP3EA-_G7	B08a (2x)
RXP3EA-_G7	B08e (1x)
RXP3EA+_G6	B08a (2x)
RXP3EA+_G6	B08e (1x)
RXP3EB-_G5	B08a (2x)
RXP3EB-_G5	B08e (1x)
RXP3EB+_G4	B08a (2x)
RXP3EB+_G4	B08e (1x)
RXP3EC-_G3	B08a (2x)
RXP3EC-_G3	B08e (1x)
RXP3EC+_G2	B08a (2x)
RXP3EC+_G2	B08e (1x)
RXP3ECLK-_G0	B08a (2x)
RXP3ECLK-_G0	B08e (1x)
RXP3ECLK+_G1	B08a (2x)
RXP3ECLK+_G1	B08e (1x)
RXP3ED-_R9	B08a (2x)
RXP3ED-_R9	B08e (1x)
RXP3ED+_R8	B08a (2x)
RXP3ED+_R8	B08e (1x)
RXP3EE-_R7	B08a (2x)
RXP3EE-_R7	B08e (1x)
RXP3EE+_R6	B08a (2x)
RXP3EE+_R6	B08e (1x)
RXP3FF	B08a (1x)
RXP3FF	B08e (1x)
RXP3HS_DE	B08a (1x)
RXP3HS_DE	B08e (1x)
RXP3OA-_B9	B08a (2x)
RXP3OA-_B9	B08e (1x)
RXP3OA+_B8	B08a (2x)
RXP3OA+_B8	B08e (1x)
RXP3OB-_B7	B08a (2x)
RXP3OB-_B7	B08e (1x)
RXP3OB+_B6	B08a (2x)
RXP3OB+_B6	B08e (1x)
RXP3OC-_B5	B08a (2x)
RXP3OC-_B5	B08e (1x)
RXP3OC+_B4	B08a (2x)
RXP3OC+_B4	B08e (1x)
RXP3OCLK-_B2	B08a (2x)
RXP3OCLK-_B2	B08e (1x)
RXP3OCLK+_B3	B08a (2x)
RXP3OCLK+_B3	B08e (1x)
RXP3OD-_B1	B08a (2x)
RXP3OD-_B1	B08e (1x)
RXP3OD+_B0	B08a (2x)
RXP3OD+_B0	B08e (1x)
RXP3OE-_G9	B08a (2x)
RXP3OE-_G9	B08e (1x)
RXP3OE+_G8	B08a (2x)
RXP3OE+_G8	B08e (1x)
RXP3R0	B08a (1x)
RXP3R0	B08e (1x)
RXP3R1	B08a (1x)
RXP3R1	B08e (1x)
RXP3R2	B08a (1x)
RXP3R2	B08e (1x)
RXP3R3	B08a (1x)
RXP3R3	B08e (1x)
RXP3R4	B08a (1x)
RXP3R4	B08e (1x)
RXP3R5	B08a (1x)
RXP3R5	B08e (1x)
RXP3VS	B08a (1x)
RXP3VS	B08e (1x)
SCL-AMBI	B08f (2x)
SCL-AMBI	B16e (1x)
SCL-AMBI-3V3	B08c (1x)
SCL-AMBI-3V3	B08e (1x)
SCL-AMBI-3V3	B08f (1x)
SCL-AMBI-3V3	B08g (1x)
SCL-CD-TUN-MAIN	B02a (1x)
SCL-CD-TUN-MAIN	B02b (1x)
SCL-CD-TUN-SUB	B03a (1x)
SCL-CD-TUN-SUB	B03b (1x)
SCL-DMA	B04b (1x)
SCL-DMA	B04f (1x)
SCL-DMA	B05e (3x)
SCL-DMA	B06a (1x)
SCL-DMA	B07a (2x)
SCL-DMA	B08c (1x)
SCL-DMA	B08e (1x)
SCL-DMA	B08f (1x)
SCL-DMA	B08g (1x)
SCL-DMA	B14a (1x)
SCL-DMA	B16a (1x)
SCL-DMA-FE	B02b (2x)
SCL-DMA-FE	B03b (1x)
SCL-DMA-FE	B16a (1x)
SCL-I2C4	B07a (2x)
SCL-I2C4	B08f (1x)
SCL-I2C4	B16e (1x)
SCL-I2C4-DISP	B08a (1x)
SCL-I2C4-DISP	B08f (1x)
SCL-MM	B02a (1x)
SCL-MM	B03a (1x)
SCL-MM	B07a (2x)
SCL-MM	B09b (1x)
SCL-MM	B10a (1x)
SCL-MM	B16b (1x)
SCL-UP-SW	B05e (2x)
SCL-UP-SW	B08f (1x)
SCL-UP-VIP	B05d (1x)
SCL-UP-VIP	B05e (2x)
SCL-UP-VIP	B07a (1x)
SCL-UP-VIP	B16e (1x)
SCL-UP-VIP-CONN	B10d (1x)
SCL-UP-VIP-CONN	B16e (1x)
SD1-A0	B08c (1x)
SD1-A0	B08d (1x)
SD1-A1	B08c (1x)
SD1-A1	B08d (1x)
SD1-A10	B08c (1x)
SD1-A10	B08d (1x)
SD1-A11	B08c (1x)
SD1-A11	B08d (1x)
SD1-A2	B08c (1x)
SD1-A2	B08d (1x)
SD1-A3	B08c (1x)
SD1-A3	B08d (1x)
SD1-A4	B08c (1x)
SD1-A4	B08d (1x)
SD1-A5	B08c (1x)
SD1-A5	B08d (1x)
SD1-A6	B08c (1x)
SD1-A6	B08d (1x)
SD1-A7	B08c (1x)
SD1-A7	B08d (1x)
SD1-A8	B08c (1x)
SD1-A8	B08d (1x)
SD1-A9	B08c (1x)
SD1-A9	B08d (1x)
SD1-CAS	B08c (1x)
SD1-CAS	B08d (1x)
SD1-CKE	B08c (1x)
SD1-CKE	B08d (1x)
SD1-CLK	B08c (1x)
SD1-CLK	B08d (1x)
SD1-CS	B08c (1x)
SD1-CS	B08d (1x)
SD1-DQ1	B08c (1x)
SD1-DQ1	B08d (1x)
SD1-DQ10	B08c (1x)
SD1-DQ10	B08d (1x)
SD1-DQ11	B08c (1x)
SD1-DQ11	B08d (1x)
SD1-DQ12	B08c (1x)
SD1-DQ12	B08d (1x)
SD1-DQ13	B08c (1x)
SD1-DQ13	B08d (1x)
SD1-DQ14	B08c (1x)
SD1-DQ14	B08d (1x)
SD1-DQ15	B08c (1x)
SD1-DQ15	B08d (1x)
SD1-DQ16	B08c (1x)
SD1-DQ16	B08d (1x)
SD1-DQ2	B08c (1x)
SD1-DQ2	B08d (1x)
SD1-DQ3	B08c (1x)
SD1-DQ3	B08d (1x)
SD1-DQ4	B08c (1x)
SD1-DQ4	B08d (1x)
SD1-DQ5	B08c (1x)
SD1-DQ5	B08d (1x)
SD1-DQ6	B08c (1x)
SD1-DQ6	B08d (1x)
SD1-DQ7	B08c (1x)
SD1-DQ7	B08d (1x)
SD1-DQ8	B08c (1x)
SD1-DQ8	B08d (1x)
SD1-DQ9	B08c (1x)
SD1-DQ9	B08d (1x)
SD1-DQM	B08c (1x)
SD1-DQM	B08d (1x)
SD1-RAS	B08c (1x)
SD1-RAS	B08d (1x)
SD1-WE	B08c (1x)
SD1-WE	B08d (1x)
SDA-AMBI	B08f (2x)
SDA-AMBI	B16e (1x)
SDA-AMBI-3V3	B08c (1x)
SDA-AMBI-3V3	B08e (1x)
SDA-AMBI-3V3	B08f (1x)
SDA-AMBI-3V3	B08g (1x)
SDA-CD-TUN-MAIN	B02a (1x)
SDA-CD-TUN-MAIN	B02b (1x)
SDA-CD-TUN-SUB	B03a (1x)
SDA-CD-TUN-SUB	B03b (1x)
SDA-DMA	B04b (1x)
SDA-DMA	B04f (1x)
SDA-DMA	B05e (3x)
SDA-DMA	B06a (1x)
SDA-DMA	B07a (2x)
SDA-DMA	B08c (1x)
SDA-DMA	B08e (1x)
SDA-DMA	B08f (1x)
SDA-DMA	B08g (1x)
SDA-DMA	B14a (1x)
SDA-DMA	B16a (1x)
SDA-DMA-FE	B02b (2x)
SDA-DMA-FE	B03b (1x)
SDA-DMA-FE	B16a (1x)
SDA-I2C4	B07a (2x)
SDA-I2C4	B08f (1x)
SDA-I2C4	B16e (1x)
SDA-I2C4-DISP	B08a (1x)
SDA-I2C4-DISP	B08f (1x)
SDA-MM	B02a (1x)
SDA-MM	B03a (1x)
SDA-MM	B07a (2x)
SDA-MM	B09b (1x)
SDA-MM	B10a (1x)
SDA-MM	B16b (1x)
SDA-UP-SW	B05e (2x)
SDA-UP-SW	B08f (1x)
SDA-UP-VIP	B05d (1x)
SDA-UP-VIP	B05e (2x)
SDA-UP-VIP	B07a (1x)
SDA-UP-VIP	B16e (1x)
SDA-UP-VIP-CONN	B10d (1x)
SDA-UP-VIP-CONN	B16e (1x)
SDM	B05e (2x)
SDM	B16a (1x)
SDM-PNX	B05e (2x)
SEL-IF-LL1	B04g (1x)
SEL-IF-LL1	B07a (1x)
SEL-IF-LL2	B04c (1x)
SEL-IF-LL2	B07a (1x)
SEL-POD	B10c (2x)
SEL-POD	B16a (1x)
SEL-POD-MAIN	B02b (1x)
SEL-POD-MAIN	B16a (1x)
SEL-POD-SUB	B03b (1x)
SEL-POD-SUB	B16a (1x)
SENSE-1V2-VIPER	B01a (1x)
SOUND-ENABLE	B07a (1x)
SOUND-ENABLE	B15a (2x)
SOUND-ENABLE	B16c (1x)
SOUND-ENABLE-VPR	B07a (2x)
SPDIF-HDMI	B07c (1x)
SPDIF-HDMI	B09b (1x)
SPDIF-IN1	B07c (1x)
SPDIF-IN1	B11b (1x)
SPDIF-OPT-IN	B11b (1x)
SPDIF-OPT-IN	B16c (1x)
SPDIF-OUT1	B07c (1x)
SPDIF-OUT1	B11b (1x)
SPDIF-SEL-OUT1	B11b (3x)
SPI-1	B11a (1x)
SPI-1	B11b (1x)
SPI-2	B11b (1x)
SPI-2	B16c (1x)
SPI-CLK	B05e (2x)
SPI-CSB	B05e (2x)
SPI-OUT	B11a (1x)
SPI-OUT	B11b (1x)
SPI-PROG	B05e (2x)
SPI-PROG	B16a (1x)
SPI-PROG-PNX	B05e (2x)
SPI-SDI	B05e (2x)
SPI-SDO	B05e (2x)
SPI-WP	B05e (3x)
STANDBY	B16d (1x)
STANDBY	B16e (1x)
STBY-WP-NAND-FLASH	B05e (2x)
STBY-WP-NAND-FLASH	B10d (1x)
STROBE1N-MAIN	B04a (1x)
STROBE1N-MAIN	B05a (1x)
STROBE1N-SUB	B04e (1x)
STROBE1N-SUB	B05a (1x)
STROBE1P-MAIN	B04a (1x)
STROBE1P-MAIN	B05a (1x)
STROBE1P-SUB	B04e (1x)
STROBE1P-SUB	B05a (1x)
STROBE2N-MAIN	B04a (1x)
STROBE2N-MAIN	B05a (1x)
STROBE2N-SUB	B04e (1x)
STROBE2N-SUB	B05a (1x)
STROBE2P-MAIN	B04a (1x)
STROBE2P-MAIN	B05a (1x)
STROBE2P-SUB	B04e (1x)
STROBE2P-SUB	B05a (1x)
STROBE3N-MAIN	B04a (1x)
STROBE3N-MAIN	B05a (1x)
STROBE3N-SUB	B04e (1x)
STROBE3N-SUB	B05a (1x)
STROBE3P-MAIN	B04a (1x)
STROBE3P-MAIN	B05a (1x)
STROBE3P-SUB	B04e (1x)
STROBE3P-SUB	B05a (1x)
-SUB-OUTPUT	B15b (2x)
-SUB-OUTPUT	B15c (1x)
SUPPLY-FAULT	B05e (8x)
SUPPLY-FAULT	B06d (4x)
SUPPLY-FAULT	B10a (4x)
SUPPLY-FAULT	B16e (2x)
SYNC-SW	B15a (1x)
SYNC-SW	B15b (1x)
TCK	B08b (1x)
TCK	B08c (1x)
TCK	B08g (1x)
TDI	B08b (1x)
TDI	B08c (1x)
TDI	B08g (1x)
TDO	B08b (1x)
TDO	B08c (1x)
TDO	B08g (1x)
TEMP-SENSOR	B05e (2x)
TMS	B08b (1x)
TMS	B08c (1x)
TMS	B08g (1x)
TS-CLK	B07c (1x)
TS-CLK	B14a (1x)
TS-DATA0	B07c (1x)
TS-DATA0	B14a (1x)
TS-DATA1	B07c (1x)
TS-DATA1	B14a (1x)
TS-DATA2	B07c (1x)
TS-DATA2	B14a (1x)
TS-DATA3	B07c (1x)
TS-DATA3	B14a (1x)
TS-DATA4	B07c (1x)
TS-DATA4	B14a (1x)
TS-DATA5	B07c (1x)
TS-DATA5	B14a (1x)
TS-DATA6	B07c (1x)
TS-DATA6	B14a (1x)
TS-DATA7	B07c (1x)
TS-DATA7	B14a (1x)
TS-SOP	B07c (1x)
TS-SOP	B14a (1x)
TS-VALID	B07c (1x)
TS-VALID	B14a (1x)
TUNN-REF	B05c (2x)
TUN-SPIDER-RX-BUSY	B05c (1x)
TUN-SPIDER-RX-BUSY	B06a (1x)
TUN-SPIDER-RX-CLKN	B05c (1x)
TUN-SPIDER-RX-CLKN	B06a (1x)
TUN-SPIDER-RX-CLKP	B05c (1x)
TUN-SPIDER-RX-CLKP	B06a (1x)
TUN-SPIDER-RX-DATA0	B05c (1x)
TUN-SPIDER-RX-DATA0	B06a (1x)
TUN-SPIDER-RX-DATA1	B05c (1x)
TUN-SPIDER-RX-DATA1	B06a (1x)
TUN-SPIDER-RX-DATA10	B05c (1x)
TUN-SPIDER-RX-DATA10	B06a (1x)
TUN-SPIDER-RX-DATA11	B05c (1x)
TUN-SPIDER-RX-DATA11	B06a (1x)
TUN-SPIDER-RX-DATA12	B05c (1x)
TUN-SPIDER-RX-DATA12	B06a (1x)
TUN-SPIDER-RX-DATA13	B05c (1x)
TUN-SPIDER-RX-DATA13	B06a (1x)
TUN-SPIDER-RX-DATA14	B05c (1x)
TUN-SPIDER-RX-DATA14	B06a (1x)
TUN-SPIDER-RX-DATA15	B05c (1x)
TUN-SPIDER-RX-DATA15	B06a (1x)
TUN-SPIDER-RX-DATA2	B05c (1x)
TUN-SPIDER-RX-DATA2	B06a (1x)
TUN-SPIDER-RX-DATA3	B05c (1x)
TUN-SPIDER-RX-DATA3	B06a (1x)
TUN-SPIDER-RX-DATA4	B05c (1x)
TUN-SPIDER-RX-DATA4	B06a (1x)
TUN-SPIDER-RX-DATA5	B05c (1x)
TUN-SPIDER-RX-DATA5	B06a (1x)
TUN-SPIDER-RX-DATA6	B05c (1x)
TUN-SPIDER-RX-DATA6	B06a (1x)
TUN-SPIDER-RX-DATA7	B05c (1x)
TUN-SPIDER-RX-DATA7	B06a (1x)
TUN-SPIDER-RX-DATA8	B05c (1x)
TUN-SPIDER-RX-DATA8	B06a (1x)
TUN-SPIDER-RX-DATA9	B05c (1x)
TUN-SPIDER-RX-DATA9	B06a (1x)
TUN-SPIDER-TX-BUSY	B05c (1x)
TUN-SPIDER-TX-BUSY	B06a (1x)
TUN-SPIDER-TX-CLKN	B05c (1x)
TUN-SPIDER-TX-CLKN	B06a (1x)
TUN-SPIDER-TX-CLKP	B05c (1x)
TUN-SPIDER-TX-CLKP	B06a (1x)
TUN-SPIDER-TX-DATA0	B05c (1x)
TUN-SPIDER-TX-DATA0	B06a (1x)
TUN-SPIDER-TX-DATA1	B05c (1x)
TUN-SPIDER-TX-DATA1	B06a (1x)
TUN-SPIDER-TX-DATA10	B05c (1x)
TUN-SPIDER-TX-DATA10	B06a (1x)
TUN-SPIDER-TX-DATA11	B05c (1x)
TUN-SPIDER-TX-DATA11	B06a (1x)
TUN-SPIDER-TX-DATA12	B05c (1x)
TUN-SPIDER-TX-DATA12	B06a (1x)
TUN-SPIDER-TX-DATA13	B05c (1x)
TUN-SPIDER-TX-DATA13	B06a (1x)
TUN-SPIDER-TX-DATA14	B05c (1x)
TUN-SPIDER-TX-DATA14	B06a (1x)
TUN-SPIDER-TX-DATA15	B05c (1x)
TUN-SPIDER-TX-DATA15	B06a (1x)
TUN-SPIDER-TX-DATA2	B05c (1x)
TUN-SPIDER-TX-DATA2	B06a (1x)
TUN-SPIDER-TX-DATA3	B05c (1x)
TUN-SPIDER-TX-DATA3	B06a (1x)
TUN-SPIDER-TX-DATA4	B05c (1x)
TUN-SPIDER-TX-DATA4	B06a (1x)
TUN-SPIDER-TX-DATA5	B05c (1x)
TUN-SPIDER-TX-DATA5	B06a (1x)
TUN-SPIDER-TX-DATA6	B05c (1x)
TUN-SPIDER-TX-DATA6	B06a (1x)
TUN-SPIDER-TX-DATA7	B05c (1x)
TUN-SPIDER-TX-DATA7	B06a (1x)
TUN-SPIDER-TX-DATA8	B05c (1x)
TUN-SPIDER-TX-DATA8	B06a (1x)
TUN-SPIDER-TX-DATA9	B05c (1x)
TUN-SPIDER-TX-DATA9	B06a (1x)
TUNS-REF	B05c (2x)
TUN-VIPER-RX-BUSY	B05c (1x)
TUN-VIPER-RX-BUSY	B07c (1x)
TUN-VIPER-RX-CLKN	B05c (1x)
TUN-VIPER-RX-CLKN	B07c (1x)
TUN-VIPER-RX-CLKP	B05c (1x)
TUN-VIPER-RX-CLKP	B07c (1x)
TUN-VIPER-RX-DATA0	B05c (1x)
TUN-VIPER-RX-DATA0	B07c (1x)
TUN-VIPER-RX-DATA1	B05c (1x)
TUN-VIPER-RX-DATA1	B07c (1x)
TUN-VIPER-RX-DATA10	B05c (1x)
TUN-VIPER-RX-DATA10	B07c (1x)
TUN-VIPER-RX-DATA11	B05c (1x)
TUN-VIPER-RX-DATA11	B07c (1x)
TUN-VIPER-RX-DATA12	B05c (1x)
TUN-VIPER-RX-DATA12	B07c (1x)
TUN-VIPER-RX-DATA13	B05c (1x)
TUN-VIPER-RX-DATA13	B07c (1x)
TUN-VIPER-RX-DATA14	B05c (1x)
TUN-VIPER-RX-DATA14	B07c (1x)
TUN-VIPER-RX-DATA15	B05c (1x)
TUN-VIPER-RX-DATA15	B07c (1x)
TUN-VIPER-RX-DATA2	B05c (1x)
TUN-VIPER-RX-DATA2	B07c (1x)
TUN-VIPER-RX-DATA3	B05c (1x)
TUN-VIPER-RX-DATA3	B07c (1x)
TUN-VIPER-RX-DATA4	B05c (1x)
TUN-VIPER-RX-DATA4	B07c (1x)
TUN-VIPER-RX-DATA5	B05c (1x)
TUN-VIPER-RX-DATA5	B07c (1x)
TUN-VIPER-RX-DATA6	B05c (1x)
TUN-VIPER-RX-DATA6	B07c (1x)
TUN-VIPER-RX-DATA7	B05c (1x)
TUN-VIPER-RX-DATA7	B07c (1x)
TUN-VIPER-RX-DATA8	B05c (1x)
TUN-VIPER-RX-DATA8	B07c (1x)
TUN-VIPER-RX-DATA9	B05c (1x)
TUN-VIPER-RX-DATA9	B07c (1x)
TUN-VIPER-TX-BUSY	B05c (1x)
TUN-VIPER-TX-BUSY	B07c (1x)
TUN-VIPER-TX-CLKN	B05c (1x)
TUN-VIPER-TX-CLKN	B07c (1x)
TUN-VIPER-TX-CLKP	B05c (1x)
TUN-VIPER-TX-CLKP	B07c (1x)
TUN-VIPER-TX-DATA0	B05c (1x)
TUN-VIPER-TX-DATA0	B07c (1x)
TUN-VIPER-TX-DATA1	B05c (1x)
TUN-VIPER-TX-DATA1	B07c (1x)
TUN-VIPER-TX-DATA10	B05c (1x)
TUN-VIPER-TX-DATA10	B07c (1x)
TUN-VIPER-TX-DATA11	B05c (1x)
TUN-VIPER-TX-DATA11	B07c (1x)
TUN-VIPER-TX-DATA12	B05c (1x)
TUN-VIPER-TX-DATA12	B07c (1x)
TUN-VIPER-TX-DATA13	B05c (1x)
TUN-VIPER-TX-DATA13	B07c (1x)
TUN-VIPER-TX-DATA14	B05c (1x)
TUN-VIPER-TX-DATA14	B07c (1x)
TUN-VIPER-TX-DATA15	B05c (1x)
TUN-VIPER-TX-DATA15	B07c (1x)
TUN-VIPER-TX-DATA2	B05c (1x)
TUN-VIPER-TX-DATA2	B07c (1x)
TUN-VIPER-TX-DATA3	B05c (1x)
TUN-VIPER-TX-DATA3	B07c (1x)
TUN-VIPER-TX-DATA4	B05c (1x)
TUN-VIPER-TX-DATA4	B07c (1x)
TUN-VIPER-TX-DATA5	B05c (1x)
TUN-VIPER-TX-DATA5	B07c (1x)
TUN-VIPER-TX-DATA6	B05c (1x)
TUN-VIPER-TX-DATA6	B07c (1x)
TUN-VIPER-TX-DATA7	B05c (1x)
TUN-VIPER-TX-DATA7	B07c (1x)
TUN-VIPER-TX-DATA8	B05c (1x)
TUN-VIPER-TX-DATA8	B07c (1x)
TUN-VIPER-TX-DATA9	B05c (1x)
TUN-VIPER-TX-DATA9	B07c (1x)
TXD	B10d (2x)
TXD	B12b (1x)
TXD	B16c (1x)
TXD-UP	B05e (1x)
TXD-UP	B10d (1x)
TXD-VIPER	B07a (1x)
TXD-VIPER	B10d (2x)
TXEA-	B08a (1x)
TXEA-	B08e (1x)
TXEA+	B08a (1x)
TXEA+	B08e (1x)
TXEB-	B08a (1x)
TXEB-	B08e (1x)
TXEB+	B08a (1x)
TXEB+	B08e (1x)
TXEC-	B08a (1x)
TXEC-	B08e (1x)
TXEC+	B08a (1x)
TXEC+	B08e (1x)
TXECLK-	B08a (1x)
TXECLK-	B08e (1x)
TXECLK+	B08a (1x)
TXECLK+	B08e (1x)
TXED-	B08a (1x)
TXED-	B08e (1x)
TXED+	B08a (1x)
TXED+	B08e (1x)
TXEE-	B08a (1x)
TXEE-	B08e (1x)
TXEE+	B08a (1x)
TXEE+	B08e (1x)
TXFPGAEA-_G7	B08a (1x)
TXFPGAEA-_G7	B08c (1x)
TXFPGAEA+_G6	B08a (1x)
TXFPGAEA+_G6	B08c (1x)
TXFPGAEB-_G5	B08a (1x)
TXFPGAEB-_G5	B08c (1x)
TXFPGAEB+_G4	B08a (1x)
TXFPGAEB+_G4	B08c (1x)
TXFPGAEC-_G3	B08a (1x)
TXFPGAEC-_G3	B08c (1x)
TXFPGAEC+_G2	B08a (1x)
TXFPGAEC+_G2	B08c (1x)
TXFPGAECLK-_G0	B08a (1x)
TXFPGAECLK-_G0	B08c (1x)
TXFPGAECLK+_G1	B08a (1x)
TXFPGAECLK+_G1	B08c (1x)
TXFPGAED-_R9	B08a (1x)
TXFPGAED-_R9	B08c (1x)
TXFPGAED+_R8	B08a (1x)
TXFPGAED+_R8	B08c (1x)
TXFPGAEE-_R7	B08a (1x)
TXFPGAEE-_R7	B08c (1x)
TXFPGAEE+_R6	B08a (1x)
TXFPGAEE+_R6	B08c (1x)
TXFPGAOA-_B9	B08a (1x)
TXFPGAOA-_B9	B08c (1x)
TXFPGAOA+_B8	B08a (1x)
TXFPGAOA+_B8	B08c (1x)
TXFPGAOB-_B7	B08a (1x)
TXFPGAOB-_B7	B08c (1x)
TXFPGAOB+_B6	B08a (1x)
TXFPGAOB+_B6	B08c (1x)
TXFPGAOC-_B5	B08a (1x)
TXFPGAOC-_B5	B08c (1x)
TXFPGAOC+_B4	B08a (1x)
TXFPGAOC+_B4	B08c (1x)
TXFPGAOCLK-_B2	B08a (1x)
TXFPGAOCLK-_B2	B08c (1x)
TXFPGAOCLK+_B3	B08a (1x)
TXFPGAOCLK+_B3	B08c (1x)
TXFPGAOD-_B1	B08a (1x)
TXFPGAOD-_B1	B08c (1x)
TXFPGAOD+_B0	B08a (1x)
TXFPGAOD+_B0	B08c (1x)
TXFPGAOE-_G9	B08a (1x)
TXFPGAOE-_G9	B08c (1x)
TXFPGAOE+_G8	B08a (1x)
TXFPGAOE+_G8	B08c (1x)
TXOA-	B08a (1x)
TXOA-	B08e (1x)
TXOA+	B08a (1x)
TXOA+	B08e (1x)
TXOB-	B08a (1x)
TXOB-	B08e (1x)
TXOB+	B08a (1x)
TXOB+	B08e (1x)
TXOC-	B08a (1x)
TXOC-	B08e (1x)
TXOC+	B08a (1x)
TXOC+	B08e (1x)
TXOCLK-	B08a (1x)
TXOCLK-	B08e (1x)
TXOCLK+	B08a (1x)
TXOCLK+	B08e (1x)
TXOD-	B08a (1x)
TXOD-	B08e (1x)
TXOD+	B08a (1x)
TXOD+	B08e (1x)
TXOE-	B08a (1x)
TXOE-	B08e (1x)
TXOE+	B08a (1x)
TXOE+	B08e (1x)
TXPNXA-	B05b (2x)
TXPNXA+	B05b (2x)
TXPNXB-	B05b (2x)
TXPNXB+	B05b (2x)
TXPNXC-	B05b (2x)
TXPNXC+	B05b (2x)
TXPNXCLK-	B05b (2x)
TXPNXCLK+	B05b (2x)
TXPNXD-	B05b (2x)
TXPNXD+	B05b (2x)
TXPNXE-	B05b (2x)
TXPNXE+	B05b (2x)
UART-SWITCH	B05e (2x)
UART-SWITCH	B10d (1x)
UART-SWITCHn	B10d (2x)
UDQS	B06b (2x)
UP-3V3	B05f (2x)
USB11-1-DM	B07a (1x)
USB11-1-DM	B12a (1x)
USB11-1-DP	B07a (1x)
USB11-1-DP	B12a (1x)
USB11-2-DM	B07a (1x)
USB11-2-DM	B12a (1x)
USB11-2-DP	B07a (1x)
USB11-2-DP	B12a (1x)
USB11-BUS-PW	B07a (1x)
USB11-BUS-PW	B12a (1x)
USB11-OVERCUR	B07a (1x)
USB11-OVERCUR	B12a (1x)
USB-1-DM	B12a (2x)
USB-1-DM	B16e (1x)
USB-1-DP	B12a (2x)
USB-1-DP	B16e (1x)
USB-2-DM	B12a (2x)
USB-2-DM	B16e (1x)
USB-2-DP	B12a (2x)
USB-2-DP	B16e (1x)
USB-BUS-PW	B12a (2x)
USB-BUS-PW	B16e (1x)
USB-BUS-PW2	B12a (1x)
USB-BUS-PW2	B16e (1x)
USB-OVERCUR	B12a (3x)
USB-OVERCUR	B16e (1x)
USB-OVERCUR2	B12a (1x)
USB-OVERCUR2	B16e (1x)
U-VOLT-DETECT	B15a (3x)
VCC_EXTO	B10a (4x)
VCCEN	B10a (2x)
VDISP	B08a (1x)
VDISP	B08f (1x)
VN1	B15a (4x)
VN2	B15b (2x)
VP1	B15a (4x)
VP2	B15b (2x)
VPPEN	B10a (3x)
VREF-AUD-POS	B04b (2x)
VREF-AUD-POS	B05a (1x)
VREFD-DDR	B07b (3x)
VREF-DDR-1V25	B05d (2x)
VREF-DDR-PNX	B05d (2x)
VREF-DDR-VPR	B07b (2x)
VREFS	B06b (5x)
VREF-VPR	B07c (2x)
VS1	B10a (3x)
VS2	B10a (3x)
VS2_MOCLKA-CI	B10a (2x)
VSW	B01a (3x)
VSW	B01b (1x)
V-SYNC-VGA	B09b (1x)
V-SYNC-VGA	B11a (1x)
WAITA	B10a (3x)
WE	B06b (2x)
WE	B10a (2x)
WRITE	B08e (1x)
WRITE	B08g (2x)
XIO-A0_CLE	B10c (1x)
XIO-A0_CLE	B10d (1x)
XIO-A0_CLE	B14b (2x)
XIO-A1_ALE	B10c (1x)
XIO-A1_ALE	B10d (1x)
XIO-A1_ALE	B14a (2x)
XIO-A1_ALE	B14b (2x)
XIO-A10	B10c (1x)
XIO-A10	B14a (1x)
XIO-A10	B14b (2x)
XIO-A11	B10c (1x)
XIO-A11	B14a (1x)
XIO-A11	B14b (2x)
XIO-A12	B10c (1x)
XIO-A12	B14a (1x)
XIO-A12	B14b (2x)
XIO-A13	B10c (1x)
XIO-A13	B14a (1x)
XIO-A13	B14b (2x)
XIO-A14	B10c (1x)
XIO-A14	B14a (1x)
XIO-A14	B14b (2x)
XIO-A15	B14a (1x)
XIO-A15	B14b (2x)
XIO-A16_D8	B10d (1x)
XIO-A16_D8	B14b (2x)
XIO-A17_D9	B10d (1x)
XIO-A17_D9	B14b (2x)
XIO-A18_D10	B10d (1x)
XIO-A18_D10	B14b (2x)
XIO-A19_D11	B10d (1x)
XIO-A19_D11	B14b (2x)
XIO-A2	B10c (1x)
XIO-A2	B14b (1x)
XIO-A20_D12	B10d (1x)
XIO-A20_D12	B14b (2x)
XIO-A21_D13	B10d (1x)
XIO-A21_D13	B14b (2x)
XIO-A22_D14	B10d (1x)
XIO-A22_D14	B14b (2x)
XIO-A23_D15	B10d (1x)
XIO-A23_D15	B14b (2x)
XIO-A3	B10c (1x)
XIO-A3	B14b (1x)
XIO-A4	B10c (1x)
XIO-A4	B14b (1x)
XIO-A5	B10c (1x)
XIO-A5	B14b (1x)
XIO-A6	B10c (1x)
XIO-A6	B14b (1x)
XIO-A7	B10c (1x)
XIO-A7	B14b (1x)
XIO-A8	B10c (1x)
XIO-A8	B14b (1x)
XIO-A9	B10c (1x)
XIO-A9	B14b (1x)
XIO-ACK	B07a (1x)
XIO-ACK	B10d (2x)
XIO-AS_REn	B10a (1x)
XIO-AS_REn	B10d (2x)
XIO-AS_REn	B14a (1x)
XIO-AS_REn	B14b (1x)
XIO-D0	B14a (1x)
XIO-D0	B14b (2x)
XIO-D1	B14a (1x)
XIO-D1	B14b (2x)
XIO-D10	B07a (1x)
XIO-D10	B14a (1x)
XIO-D11	B07a (1x)
XIO-D11	B14a (1x)
XIO-D12	B07a (1x)
XIO-D12	B14a (1x)
XIO-D13	B07a (1x)
XIO-D13	B14a (1x)
XIO-D14	B07a (1x)
XIO-D14	B14a (1x)
XIO-D15	B07a (1x)
XIO-D15	B14a (1x)
XIO-D2	B14a (1x)
XIO-D2	B14b (2x)
XIO-D3	B14a (1x)
XIO-D3	B14b (2x)
XIO-D4	B14a (1x)
XIO-D4	B14b (2x)
XIO-D5	B14a (1x)
XIO-D5	B14b (2x)
XIO-D6	B14a (1x)
XIO-D6	B14b (2x)
XIO-D7	B14a (1x)
XIO-D7	B14b (2x)
XIO-D8	B07a (1x)
XIO-D8	B14a (1x)
XIO-D9	B07a (1x)
XIO-D9	B14a (1x)
XIO-RWn_WEn	B10a (1x)
XIO-RWn_WEn	B10d (1x)
XIO-RWn_WEn	B14a (2x)
XIO-RWn_WEn	B14b (1x)
XIO-SEL0	B07a (2x)
XIO-SEL0	B10d (3x)
XIO-SEL0	B14b (1x)
XIO-SEL1	B07a (1x)
XIO-SEL1	B14a (1x)
XIO-SEL1	B14b (1x)
XIO-SEL2	B07a (1x)
XIO-SEL2	B10a (1x)
Y-CVBS-MON-OUT	B16c (2x)

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SRP: Direction for Use

1.1. Introduction

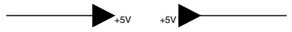
SRP (Service Reference Protocol) is a software tool that creates a list with all references to signal lines. The list contains references to the signals within all schematics of a PWB. It replaces the text references currently printed next to the signal names in the schematics. These printed references are created manually and are therefore not guaranteed to be 100% correct. In addition, in the current crowded schematics there is often none or very little place for these references.
Some of the PWB schematics will use SRP while others will still use the manual references. Either there will be an SRP reference list for a schematic, or there will be printed references in the schematic.

1.2. Non-SRP Schematics

There are several different signals available in a schematic:

1.2.1. Power Supply Lines

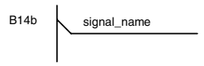
All power supply lines are available in the supply line overview (see chapter 6). In the schematics (see chapter 7) is not indicated where supplies are coming from or going to.
It is however indicated if a supply is incoming (created elsewhere), or outgoing (created or adapted in the current schematic).



Outgoing Incoming

1.2.2. Normal Signals

For normal signals, a schematic reference (e.g. B14b) is placed next to the signals.

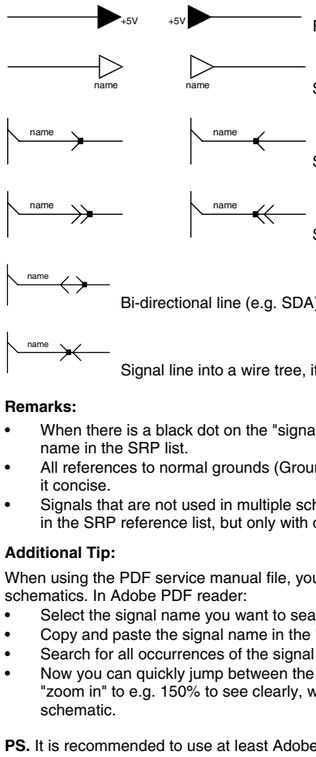


1.2.3. Grounds

For normal and special grounds (e.g. GNDHOT or GND3V3 etc.), nothing is indicated.

1.3. SRP Schematics

SRP is a tool, which automatically creates a list with signal references, indicating on which schematic the signals are used.
A reference is created for all signals indicated with an SRP symbol, these symbols are:



Remarks:

- When there is a black dot on the "signal direction arrow" it is an SRP symbol, so there will be a reference to the signal name in the SRP list.
- All references to normal grounds (Ground symbols without additional text) are not listed in the reference list, this to keep it concise.
- Signals that are not used in multiple schematics, but only once or several times in the same schematic, are included in the SRP reference list, but only with one reference.

Additional Tip:

When using the PDF service manual file, you can very easily search for signal names and follow the signal over all the schematics. In Adobe PDF reader:

- Select the signal name you want to search for, with the "Select text" tool.
- Copy and paste the signal name in the "Search PDF" tool.
- Search for all occurrences of the signal name.
- Now you can quickly jump between the different occurrences and follow the signal over all schematics. It is advised to "zoom in" to e.g. 150% to see clearly, which text is selected. Then you can zoom out, to get an overview of the complete schematic.

PS. It is recommended to use at least Adobe PDF (reader) version 6.x, due to better search possibilities in this version.

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Layout SSB (Top Side Mapping)

1735 F2 2C01 C4 2F20 E6 2I80 A4 2LT0 B6 2Q37 C7 2R97 E3 3A05 D4 3F36 E8 3H87 C7 3LD1 B5 3N92 B9 3R94 F3 5J06 C5 7F25 F4 9H19 B7
1736 F1 2C32 B4 2F21 E6 2I81 A4 2LT7 C5 2Q38 C7 2R98 E3 3A06 D4 3F37 F7 3H88 B7 3LD3 B5 3O00 A6 3T08 A1 5J07 C5 7F58 E8 9H20 B7
1738 F1 2C33 D3 2F22 E6 2I83 A4 2LT8 C5 2Q39 C7 2R99 E4 3A28 B4 3F38 F7 3H89 B7 3LD4 B5 3O01 A6 3U1H E9 5L50 C5 7F60 E7 9H26 B7
1A33 D3 2C34 D3 2F23 E6 2J01 B4 2LT9 C5 2Q40 C7 2RA1 F3 3A29 B4 3F39 F7 3H90 C7 3LD5 B5 3O02 A6 3U26 E9 5L51 C5 7F62 E8 9H27 C7
1A53 D3 2C37 D3 2F24 E6 2J03 C5 2M00 F8 2Q41 B7 2RA2 F3 3A31 D3 3F3A F7 3H91 C7 3LD6 B5 3O03 A6 3U35 C9 5L52 C5 7F64 F8 9H29 C7
1B01 A6 2C38 D3 2F25 E6 2J06 C5 2M01 F8 2Q42 C7 2RA4 E4 3A38 D4 3F3B F7 3H93 B7 3LD7 B5 3O04 A6 3U36 C9 5LA1 B6 7I01 A3 9H30 B7
1B02 A5 2C39 D3 2F26 E6 2J08 C5 2M02 F8 2Q43 C7 2RA5 E4 3A46 B3 3F3C F7 3H94 B7 3LD8 B5 3O05 A6 3V25 D8 5LA2 B5 7I02 A3 9H32 B7
1C33 C3 2C42 C4 2F27 E6 2J10 C5 2M03 F9 2Q44 C7 2RA6 E4 3A47 B3 3F3E F7 3H95 B7 3LD9 B5 3O06 A6 3V41 D7 5LA3 B5 7J01 B6 9H33 B7
1C53 C3 2C45 D3 2F28 E6 2J13 C5 2M04 F9 2Q45 C7 2RA7 E4 3A48 B3 3F3K E5 3H97 C8 3LE0 B5 3O07 A6 3V44 D7 5LA4 C5 7J02 B6 9H34 B7
1D10 E1 2C46 D3 2F29 E6 2J16 C5 2M05 F8 2Q46 C7 2RA9 E4 3A80 D3 3F3L E5 3H98 C7 3LE2 B6 3O08 A6 3V47 D7 5LA5 C5 7L50 D5 9J22 B4
1D42 F7 2C47 D3 2F2C E6 2J18 C5 2M06 F9 2Q47 C7 2RB2 E4 3A81 D3 3F3P E5 3H99 C7 3LE3 B6 3O09 A6 3V48 D8 5LA6 C5 7L51 B6 9J24 C4
1E45 A1 2C48 D3 2F2D F7 2J20 C5 2M0I F8 2Q48 C7 2RB3 E4 3B14 A6 3F3Q E5 3I00 A5 3LE4 B6 3O10 A6 3V78 C7 5LA7 C5 7L52 B6 9L04 B6
1E50 A1 2C49 D3 2F2I F5 2J22 B4 2M0J F9 2Q49 C7 2RB5 E4 3B15 A6 3F3R E6 3I01 A5 3LE5 B5 3O11 A7 3Z01 A8 5LA8 C5 7LA3 B5 9L09 B5
1F00 E7 2C52 C3 2F2K F4 2J23 B4 2M13 A5 2Q50 B7 2RC5 F3 3B16 A6 3F3S E6 3I02 A5 3LE6 B5 3O12 A6 3Z07 A7 5LN0 C5 7LA7 B5 9L10 B5
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2B53 A5 2F1N E6 2I01 A4 2LH8 B5 2Q26 C7 2R86 E4 2Z23 A7 3F2I E5 3H73 C7 3LB9 B6 3N16 C8 3R73 E3 5F11 E5 7F08 E8 9H03 C7
2B62 A6 2F1P E6 2I02 A5 2LJ1 C5 2Q27 C7 2R87 E4 2Z24 A7 3F2J E5 3H74 C7 3LC0 B5 3N17 C8 3R74 E3 5F22 E6 7F09 F7 9H04 C7
2B64 A5 2F1Q E6 2I05 A3 2LN3 B5 2Q28 B7 2R88 E4 2Z25 A8 3F2W E8 3H75 C6 3LC1 B5 3N18 C9 3R75 E3 5F23 E6 7F10 E6 9H05 B6
2B67 A5 2F1R E6 2I06 A3 2LN4 B5 2Q29 B7 2R89 E4 2Z27 A8 3F2Y E8 3H79 B8 3LC2 B5 3N19 C9 3R77 E4 5F30 E7 7F11 E8 9H06 C6
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2B81 A6 2F1W E6 2I60 A4 2LP2 B5 2Q34 B7 2R94 E4 2Z51 A7 3F33 E7 3H84 B6 3LC8 B5 3N24 C9 3R91 F3 5J03 C5 7F17 D7 9H15 B8
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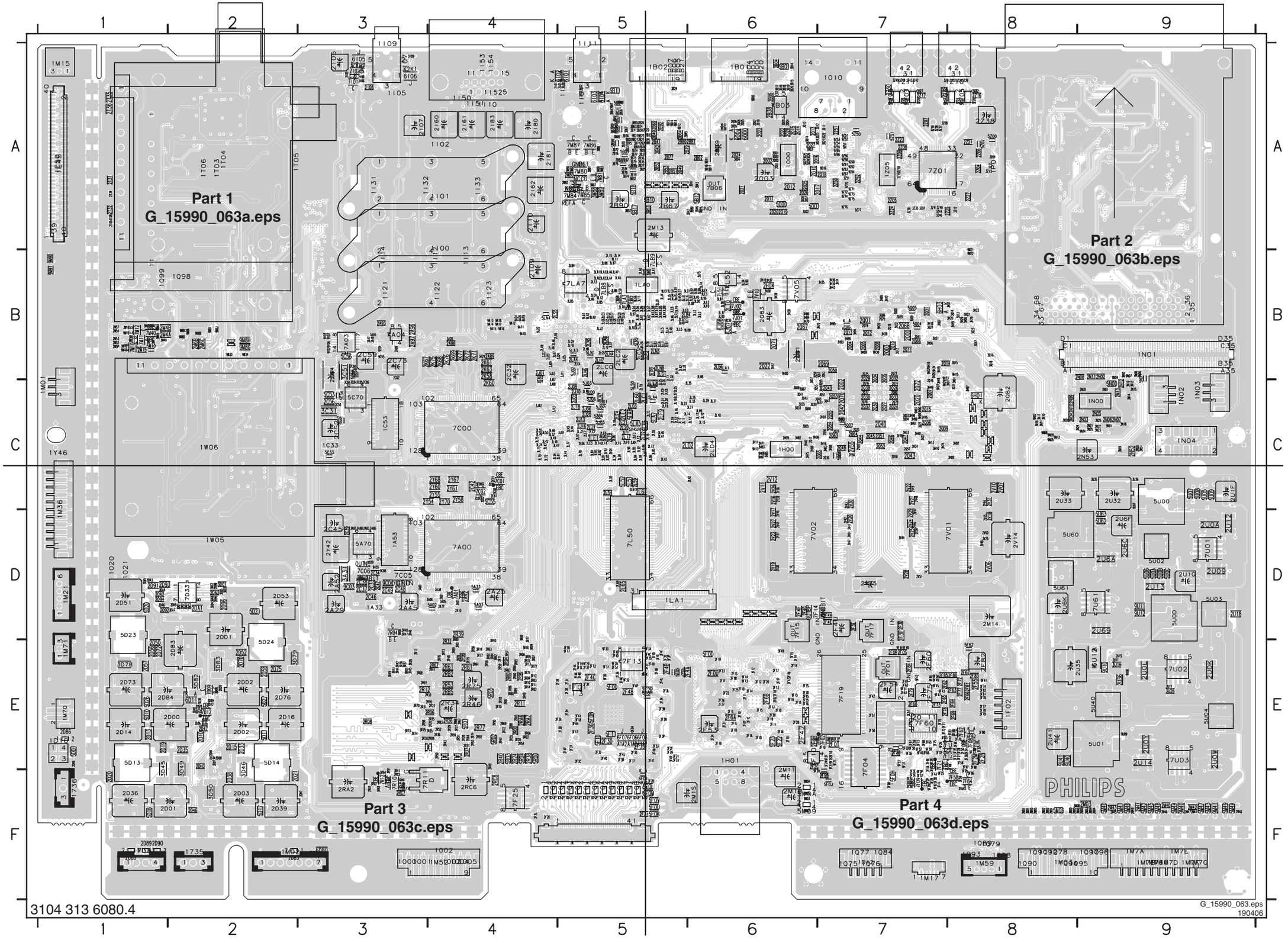
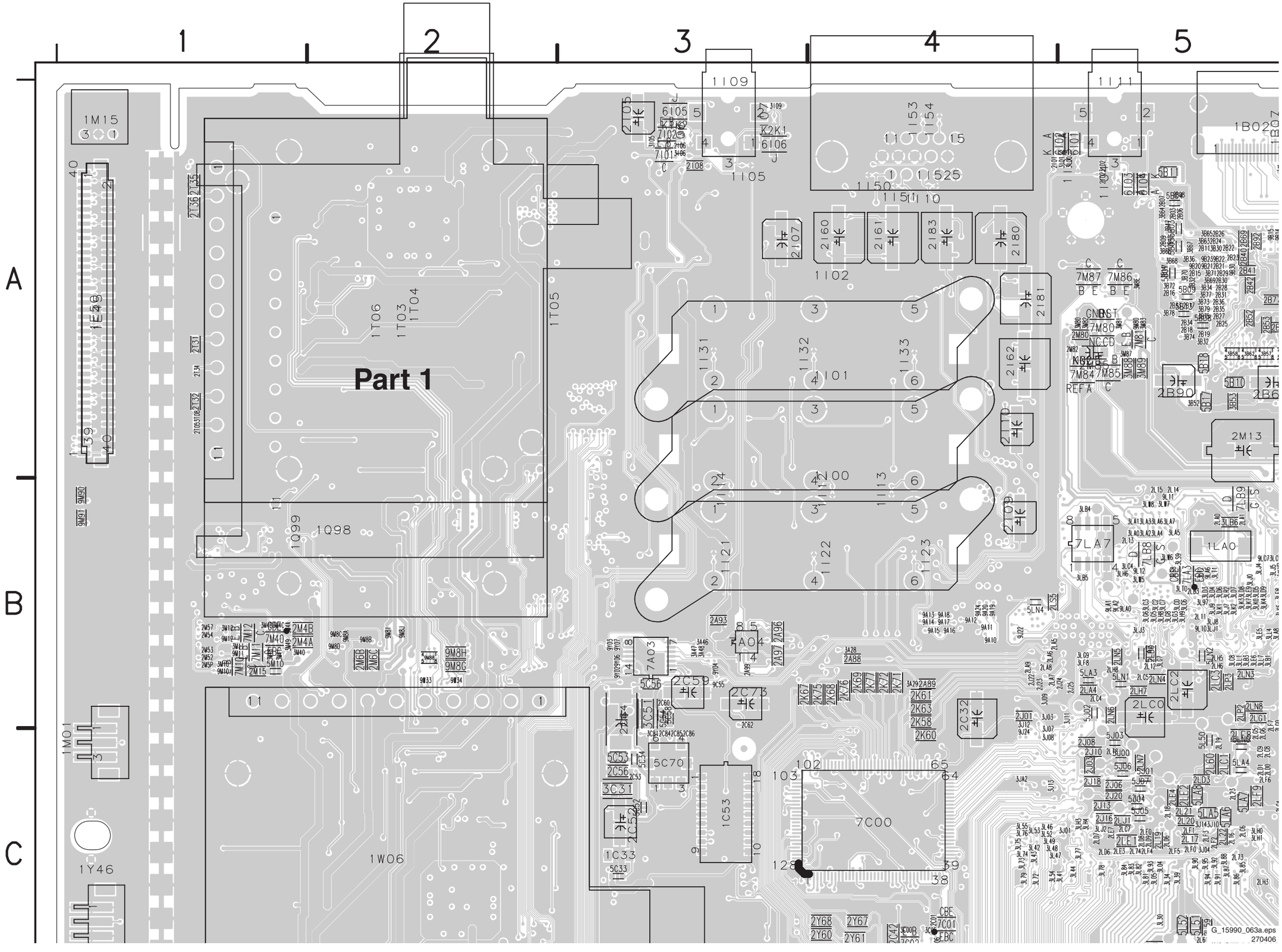
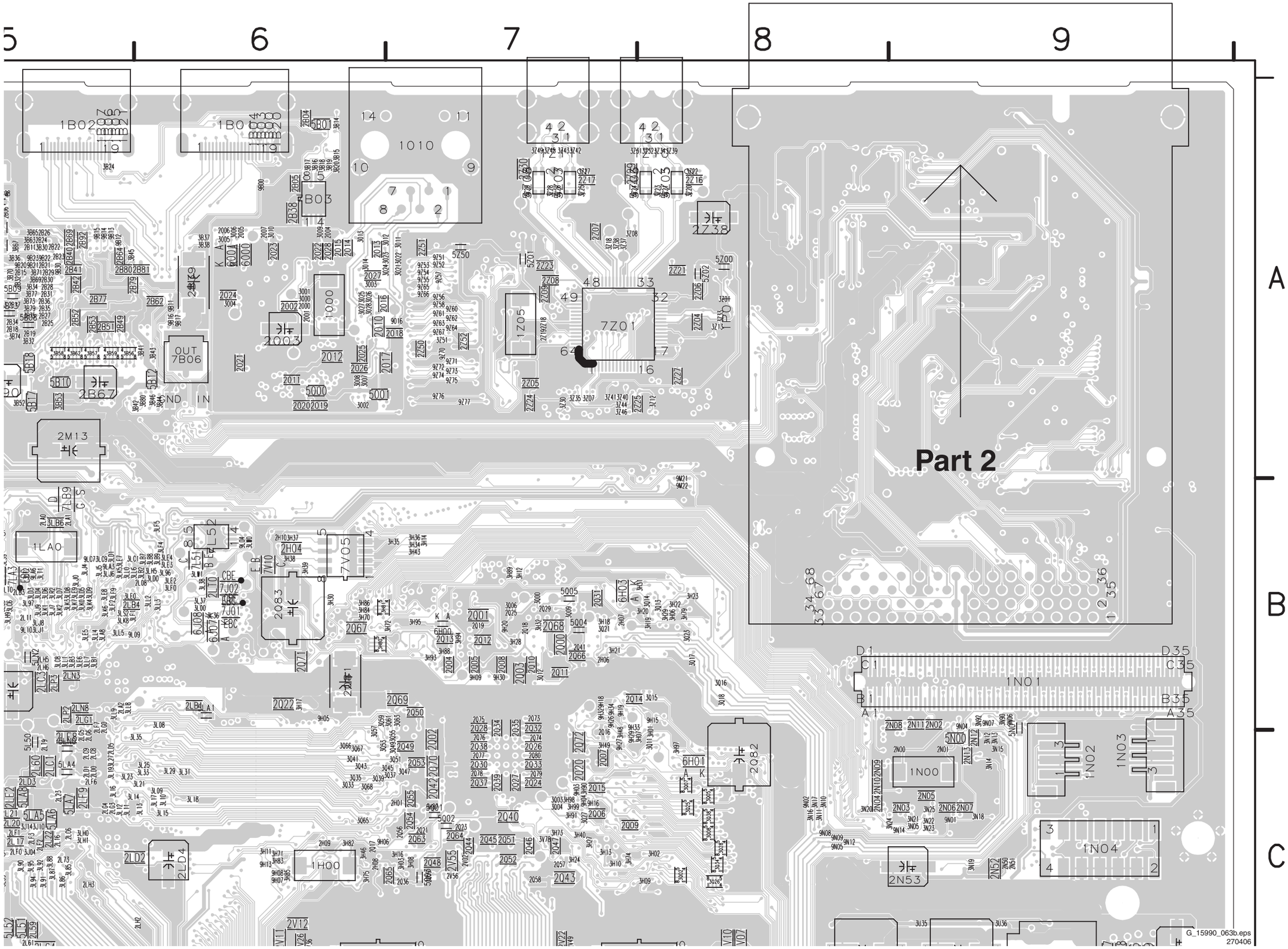
Layout SSB (Top Side Overview)



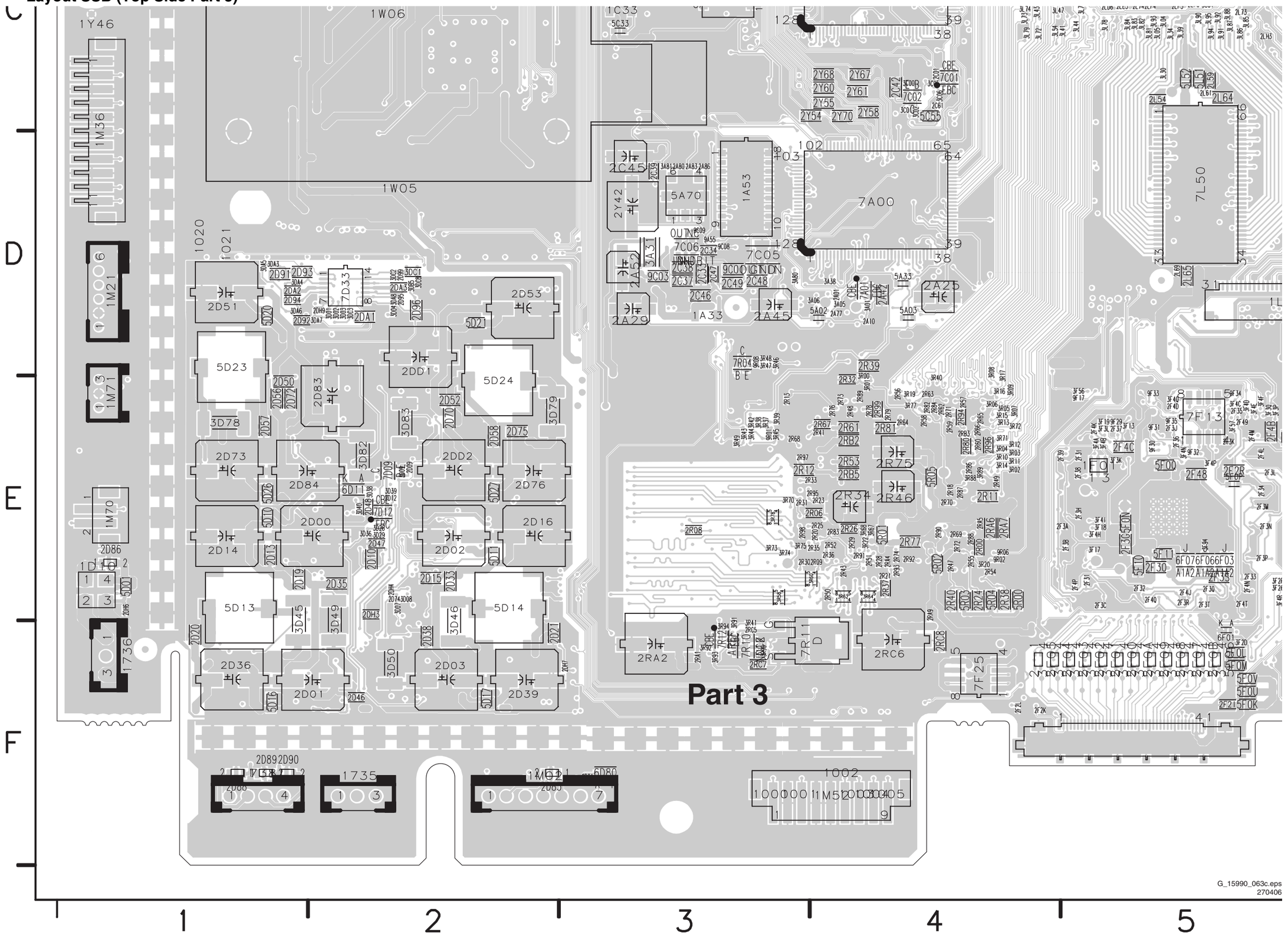
Layout SSB (Top Side Part 1)



Layout SSB (Top Side Part 2)

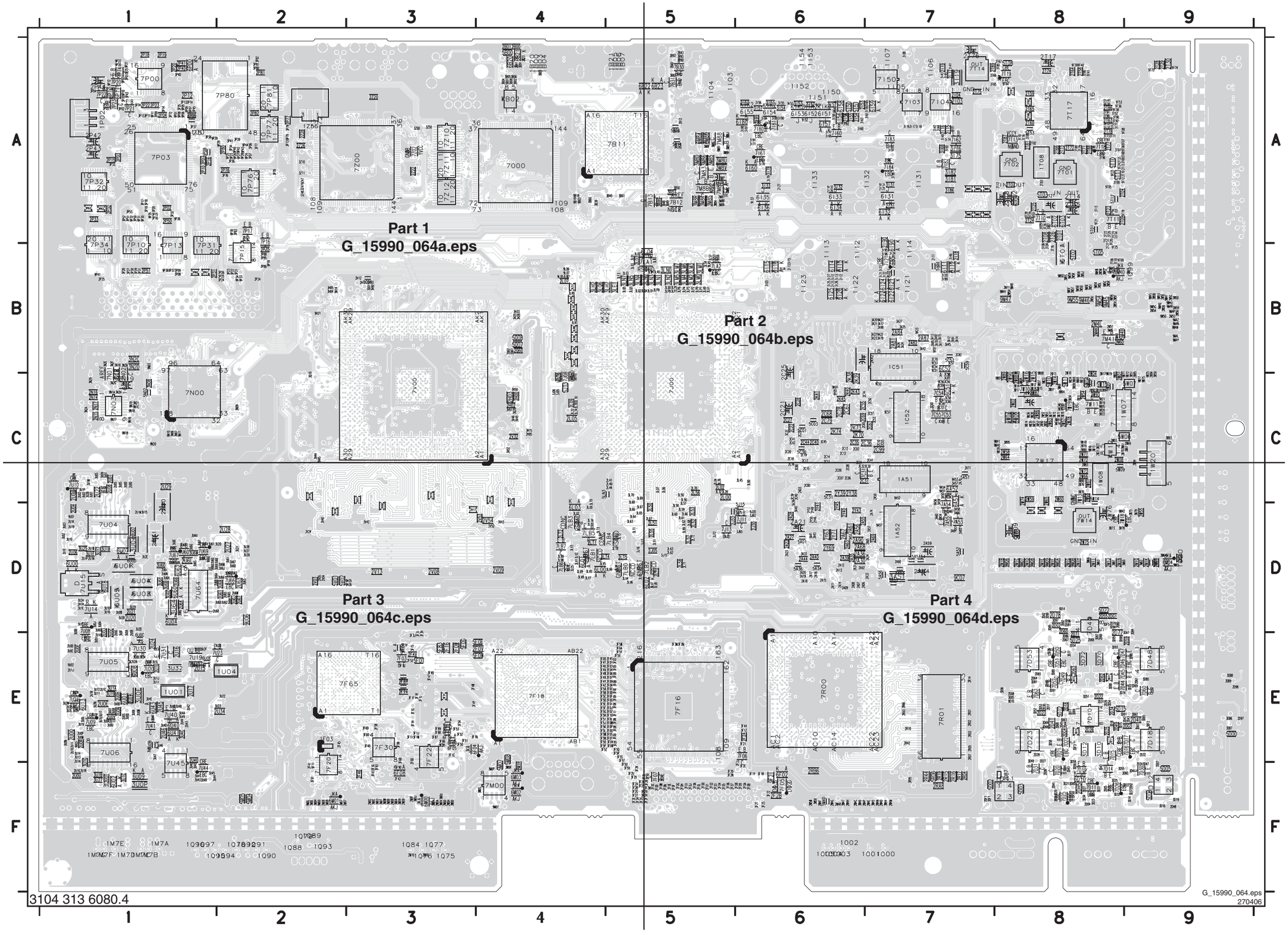


Layout SSB (Top Side Part 3)



Layout SSB (Top Side Part 4)

Layout SSB (Overview Bottom Side)



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Layout SSB (Bottom Side Mapping)

1A51	C7	2D18	E8	2J33	D5	2P23	A1	2U1M	D1	3A17	B7	3D80	E9	3F5E	E4	3L03	B5	3M0S	F4	3T24	A8	3U4D	E1	5F61	E3	6U60	D1	7U23	E1	9P08	A1
1A52	D7	2D22	E8	2K38	C6	2P24	B2	2U1N	D1	3A19	B7	3D81	E8	3F5F	E4	3L06	C5	3M0T	F3	3T25	A8	3U4E	E1	5F83	E3	6U62	D1	7U30	E1	9P09	A1
1C51	B7	2D23	E8	2K39	C6	2P25	B1	2U1P	D1	3A20	B7	3D84	D9	3F5G	E4	3L07	C5	3M0U	F3	3T26	A8	3U4F	E1	5I01	B7	6W02	C8	7U31	E1	9P10	A1
1C52	C7	2D24	F9	2K40	C6	2P31	B1	2U1Q	F1	3A21	B7	3D85	D8	3F5H	E4	3L20	C4	3M0V	F3	3T27	A8	3U4G	F1	5I21	B7	6W03	C8	7U40	E1	9P11	A1
1D11	F8	2D25	E8	2K41	C6	2P32	A1	2U1R	F1	3A22	B7	3D86	E8	3F5I	E4	3L22	C4	3M42	B8	3T28	A8	3U60	D2	5I50	A6	7A53	D7	7U41	E1	9P12	A1
1D12	F9	2D26	E8	2K42	B7	2P33	A1	2U1U	E1	3A23	B7	3D87	E8	3F5J	E4	3L24	C4	3M43	B8	3T29	A8	3U61	D1	5I51	A6	7A54	D7	7U44	E1	9P18	A2
1F03	E2	2D27	E8	2K43	C6	2P35	B2	2U1W	D1	3A24	B7	3D88	E8	3F5K	E4	3L26	C5	3M44	F7	3T52	A8	3U62	D2	5J13	C4	7A55	D7	7U45	F1	9P19	B2
1P02	A1	2D28	E8	2K45	C6	2P40	A1	2U1Z	F1	3A25	B7	3D89	E8	3F5L	E4	3L28	C5	3M45	F7	3T64	A8	3U63	D2	5J15	D6	7B02	A4	7U60	D1	9P20	A1
1T08	A8	2D29	E8	2K70	C6	2P41	A1	2U20	D1	3A26	B7	3D90	E9	3F5M	E4	3L32	C5	3M46	F6	3T65	A7	3U64	D1	5J16	D6	7B11	A5	7U64	D1	9P21	A1
1U01	E1	2D30	E8	2K73	C6	2P42	A1	2U21	D1	3A27	B7	3D91	E8	3F5N	E4	3L40	B5	3M47	F6	3T66	A7	3U65	D2	5LN3	C4	7B12	A5	7U66	D2	9P22	A1
1U04	E2	2D31	E8	2K74	C6	2P43	A1	2U22	C1	3A33	D6	3D92	E8	3F5O	E4	3L45	C6	3M4D	B8	3T68	A8	3U66	D2	5M04	F2	7B13	A5	7U67	D1	9P23	A2
1W07	C9	2D32	E9	2L00	C5	2P44	A1	2U23	E1	3A39	D6	3D93	E8	3F5P	E4	3L50	C5	3M4E	B8	3T69	A8	3U67	D2	5M05	F2	7B30	A5	7U69	D1	9P24	A2
1W08	C8	2D34	E8	2L02	C5	2P50	A1	2U24	E1	3A40	D6	3D94	D8	3F5Q	E5	3L51	D5	3M50	F6	3T70	A8	3U68	D2	5M07	F4	7B31	A5	7V00	C2	9P25	A2
1W20	C9	2D37	E9	2L03	B5	2P51	B1	2U25	E1	3A41	D6	3D95	E8	3F5R	E5	3L56	C5	3M60	D8	3T71	A8	3U69	D1	5M08	E4	7C31	C7	7W10	C8	9P26	A2
1Z55	A2	2D40	E9	2L04	C5	2P76	A2	2U26	E1	3A42	B7	3D96	D8	3F5S	E5	3L57	D5	3M61	D8	3T72	A8	3U6A	D1	5M4B	B8	7C53	C7	7W11	C8	9P27	A2
2A02	D6	2D41	E8	2L05	C4	2P77	A2	2U27	D2	3A43	D6	3D97	D8	3F5T	E5	3L58	D5	3M62	D9	3T73	A8	3U6B	D1	5M4D	F6	7C54	C7	7W12	C8	9P28	A2
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2C80	C6	2I31	A7	2P10	A1	2U17	E1	2Z20	A3	3D68	E8	3F4Z	E4	3J06	C4	3M0B	F3	3T06	B8	3U43	F1	5D05	F9	6U0B	E1	7U05	E1	9N19	C1		
2C82	B7	2I51	A6	2P12	A1	2U19	D1	2Z22	A3	3D69	E8	3F50	E3	3J15	D5	3M0C	F3	3T07	A8	3U44	F1	5D12	E8	6U0C	E1	7U06	E1	9N1A	C1		
2C99	C7	2I52	A6	2P13	A1	2U1A	E1	2Z26	A2	3D70	E8	3F51	E3	3J16	D5	3M0D	F3	3T09	A8	3U45	F1	5D15	E8	6U0D	D1	7U08	E1	9N1B	C1		
2D04	F8	2I53	A6	2P14	A1	2U1B	E1	2Z28	A2	3D71	E8	3F52	E3	3J17	D5	3M0E	F2	3T10	B8	3U46	E1	5D22	D8	6U0E	E1	7U09	E1	9N1C	C1		
2D05	F8	2I54	A6	2P15	A1	2U1C	E1	3A10	B7	3D72	E8	3F53	E3	3J62	D6	3M0H	F2	3T13	A8	3U47	E1	5D25	E8	6U0F	D1	7U10	C1	9N20	C1		
2D06	F8	2I55	A6	2P16	A1	2U1D	E1	3A11	B7	3D73	E8	3F54	E3	3J65	D6	3M0I	F3	3T16	B8	3U48	E1	5F0E	E4	6U13	E1	7U14	D1	9P01	A1		
2D07	F9	2I56	A6	2P18	A1	2U1E	D1	3A12	B7	3D74	E8	3F5A	E4	3J72	D5	3M0J	F3	3T20	A8	3U49	E1	5F0G	E3	6U18	D1	7U15	D1	9P02	A1		
2D08	E8	2I90	A7	2P19	A1	2U1I	E1	3A13	B7	3D75	E9	3F5B	E4	3J75	D6	3M0M	F3	3T21	A8	3U4A	E1	5F0T	E3	6U40	E1	7U19	E1	9P05	A1		
2D11	F8	2J05	D5	2P20	A1	2U1J	E1	3A14	B7	3D76	E8	3F5C	E4	3L01	B5	3M0P	F4	3T22	A8	3U4B	E1	5F0W	E4	6U41	E1	7U20	E1	9P06	A1		
2D17	E8	2J30	D6	2P22	A1	2U1K	D1	3A15	B7	3D77	E8	3F5D	E4	3L02	B5	3M0R	F4	3T23	A8	3U4C	E1	5F60	E3	6U43	E1	7U21	E1	9P07	A1		

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Personal Notes:

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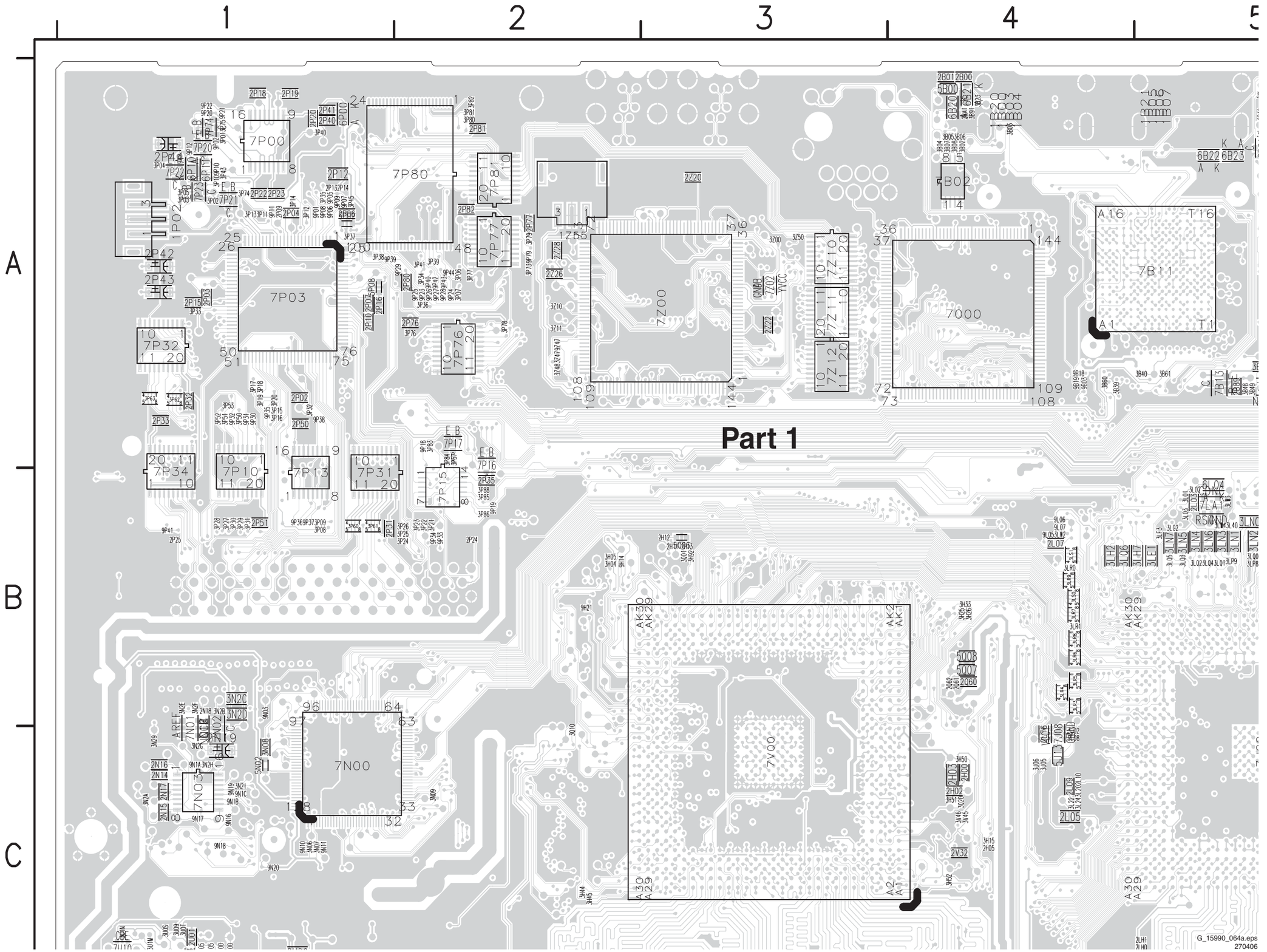
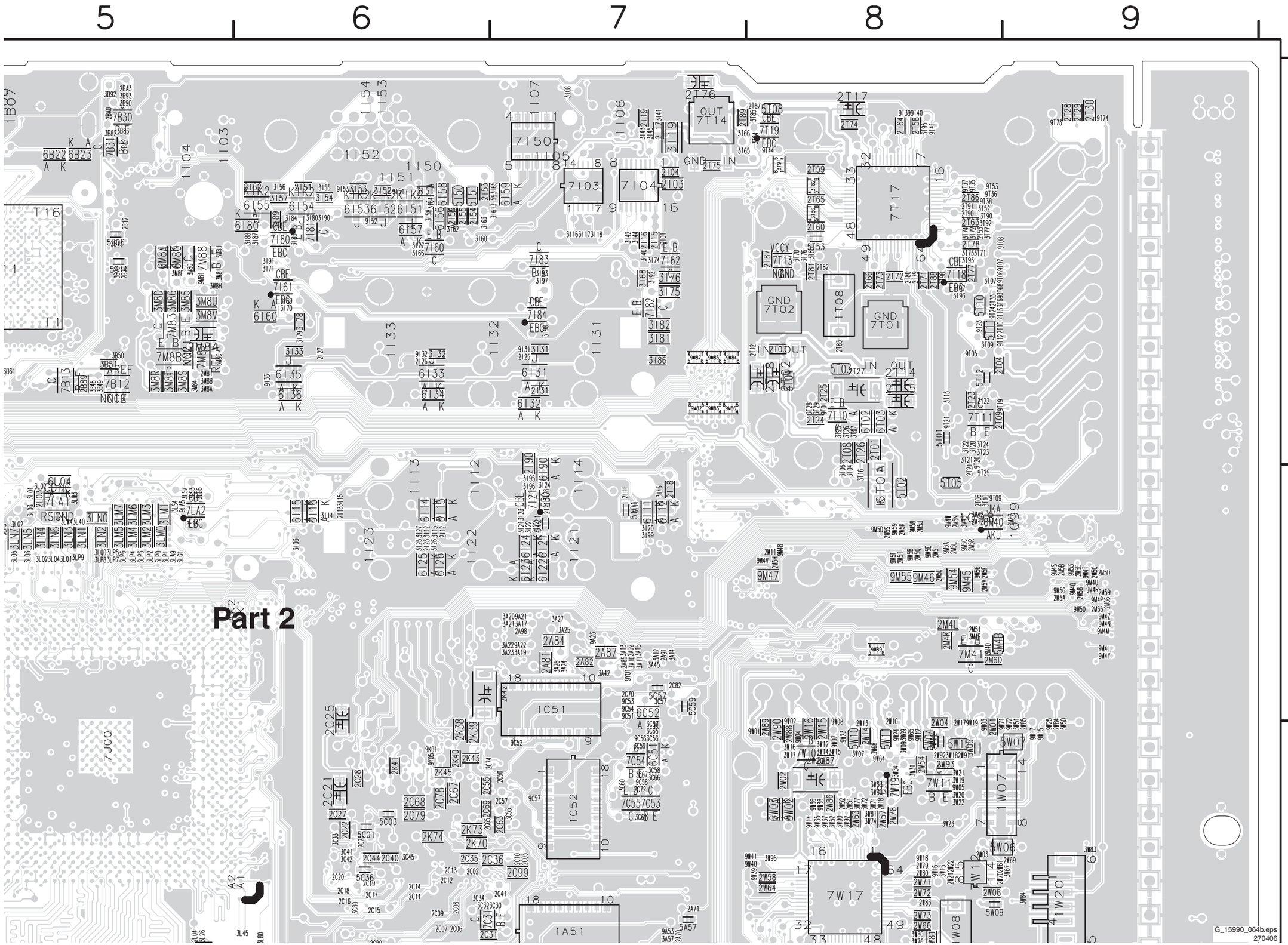
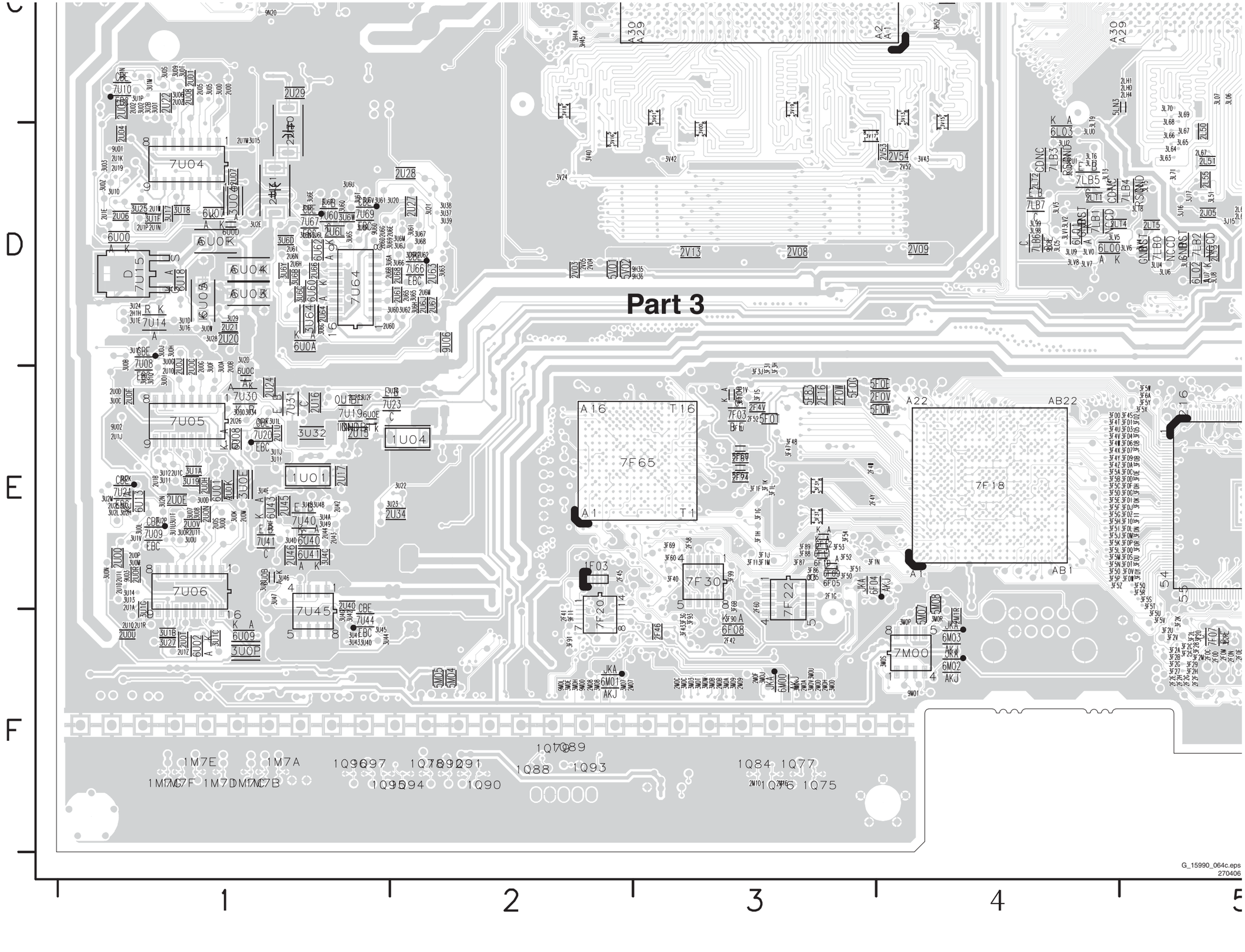
Layout SSB (Bottom Side Part 1)



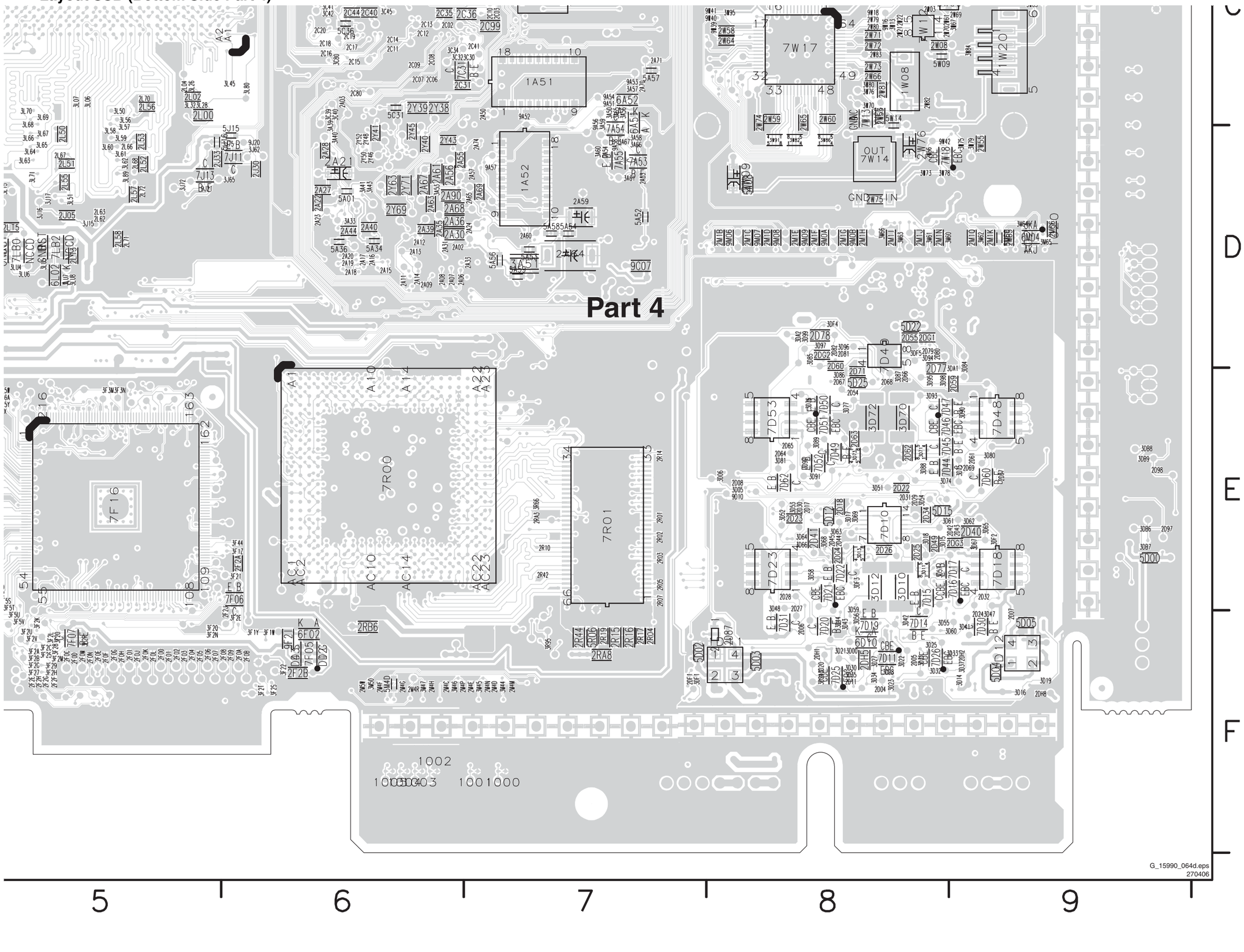
Layout SSB (Bottom Side Part 2)



Layout SSB (Bottom Side Part 3)



Layout SSB (Bottom Side Part 4)



External I/O Panel: Externals A

BE1 EXTERNALS A

BE1

SCART2 (AV2) 1I02

SCART1 (AV1) 1I01

PPTV/16

MDX

74HC4053PW

BC847BW

BAS316

BZX384-C12

PDZ6.8-B

1I01 C14	3O45 I10	IO03 G2	
1I02 C9	3O46 A10	IO04 A7	
1O00 A12	3O47 C10	IO05 B7	
1O06 C8	3O48 I4	IO06 B7	
1O07 B12	3O49 H2	IO07 C7	
1O08 D7	3O51 F7	IO08 A12	
1O09 D7	3O52 I6	IO09 B12	
1O10 C12	3O54 G13	IO10 C12	
1O11 E7	3O55 G6	IO11 C12	
1O12 D13	3O57 H11		
1O13 F8	3O59 H11		
1O14 E11	3O60 F6		
1O16 G7	3O61 H6		
1O18 F13	3O62 H7		
1O19 G13	3O63 A7		
1O22 H11	3O64 B7		
1O23 I11	3O65 D11		
1O24 I7	3O66 E6		
1O25 H11	3O67 G6		
1O26 H7	3O68 G10		
1O27 H7	3O69 G6		
1O28 A8	3O70 H6		
1O29 B8	3O72 G1		
1O30 B8	3O74 A2		
1O31 B12	3O75 A1		
2O01 A11	3O76 B2		
2O02 A3	3O77 B1		
2O03 I5	3O78 C2		
2O06 B11	3O79 C1		
2O07 B4	5O00 H1		
2O08 B4	6O01 A11		
2O09 A4	6O02 D7		
2O10 B11	6O03 A12		
2O11 D1	6O04 A7		
2O12 A5	6O05 A3		
2O14 C4	6O06 A4		
2O15 D3	6O07 B11		
2O16 C11	6O08 A7		
2O17 F2	6O09 B12		
2O18 E11	6O10 B7		
2O23 F3	6O11 B11		
2O24 H2	6O12 B7		
2O25 H2	6O13 C12		
2O26 H3	6O14 B7		
2O29 A6	6O15 C11		
2O30 B6	6O16 C7		
2O31 B6	6O17 C12		
2O32 C6	6O18 D3		
2O33 D6	6O19 C7		
2O35 A1	6O20 D12		
2O36 B1	6O21 C7		
2O37 G4	6O22 E12		
2O38 D11	6O24 D6		
2O39 D11	6O25 F12		
2O52 I2	6O27 G12		
2O53 I3	6O29 H11		
2O54 E11	6O30 I11		
2O55 F11	6O31 I7		
2O56 F11	6O32 H11		
2O57 G11	6O33 E6		
2O58 F6	6O34 F7		
2O59 F7	6O35 G6		
3I01 G4	6O36 H6		
3I02 H4	6O37 H6		
3I03 F11	6O38 I2		
3I04 F11	7O00 B3		
3I05 D11	7O01 C4		
3I06 G11	7O02 D2		
3I07 G11	7O03 C2		
3I08 D10	7O04 F2		
3I09 F10	7O05 C1		
3I10 G10	7O06 A1		
3O01 A11	7O07 H4		
3O02 G2	7O08 D11		
3O03 D1	7O09 F11		
3O04 A4	7O10 F3		
3O05 A5	7O11 G11		
3O06 D4	7O12 B1		
3O07 A11	7O13 I4		
3O08 C2	7O15 F6		
3O09 A4	9O00 B5		
3O10 A5	9O15 F6		
3O11 A7	FO57 B4		
3O12 A11	FO58 B4		
3O13 B2	FO59 H2		
3O14 C7	FO60 A8		
3O15 B11	FO61 A8		
3O16 D7	FO62 B8		
3O17 D6	FO63 D8		
3O18 B6	FO64 D8		
3O19 C11	FO65 D8		
3O20 C1	FO66 D8		
3O21 B6	FO67 E8		
3O22 C11	FO68 C8		
3O23 D4	FO69 A4		
3O24 A6	FO70 C14		
3O25 C3	FO71 C14		
3O26 F7	FO72 C14		
3O27 B11	FO73 D14		
3O28 D12	FO74 D14		
3O29 D3	FO75 D14		
3O30 B11	FO76 E8		
3O31 E11	FO77 E8		
3O32 E11	FO78 F8		
3O33 F6	FO79 F8		
3O34 C6	FO80 D14		
3O35 F12	FO81 E14		
3O36 D12	FO82 E14		
3O37 I2	FO83 E14		
3O38 F13	FO84 F14		
3O40 A6	FO85 F14		
3O41 G12	FO86 A5		
3O42 I4	FO87 I2		
3O43 H11	IO01 B2		
3O44 C6	IO02 D3		

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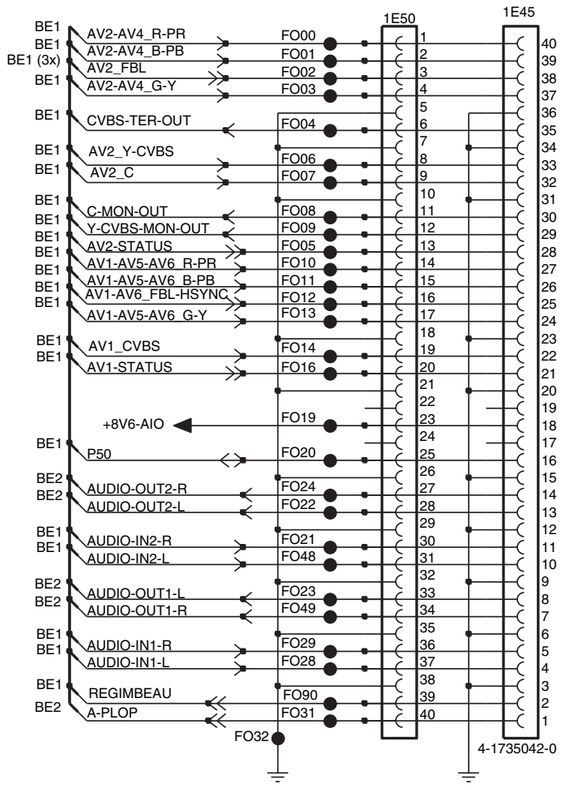
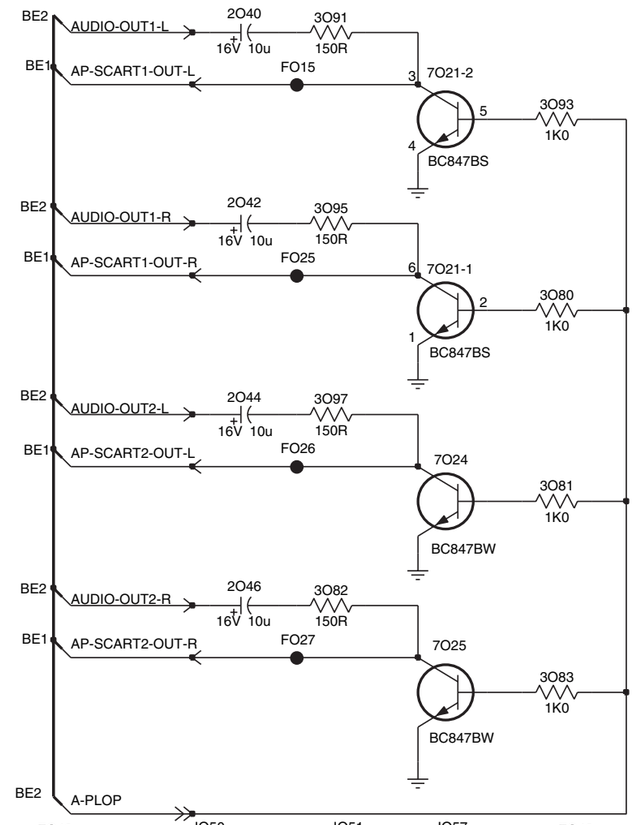
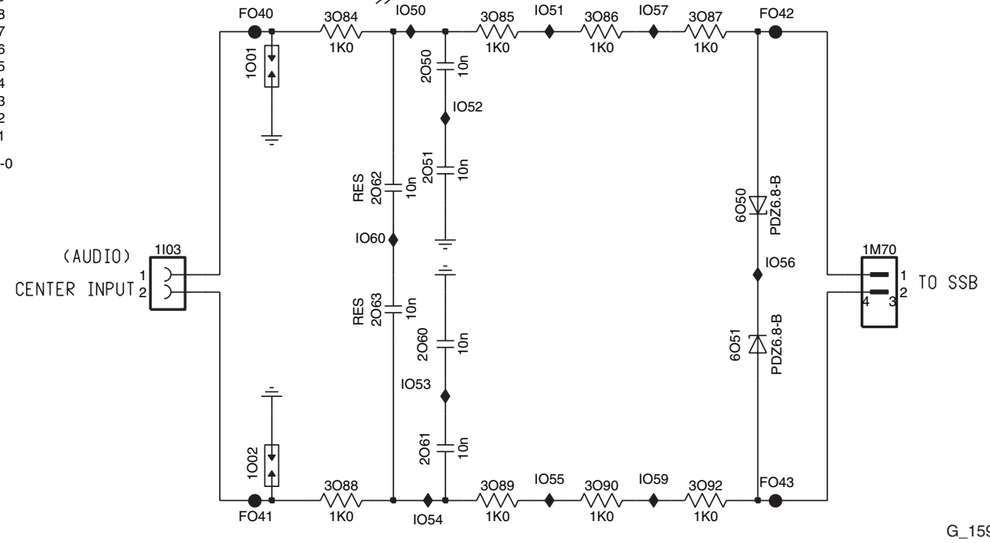
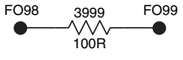
External I/O Panel: Externals B

BE2 EXTERNALS B









3104 313 6103.3

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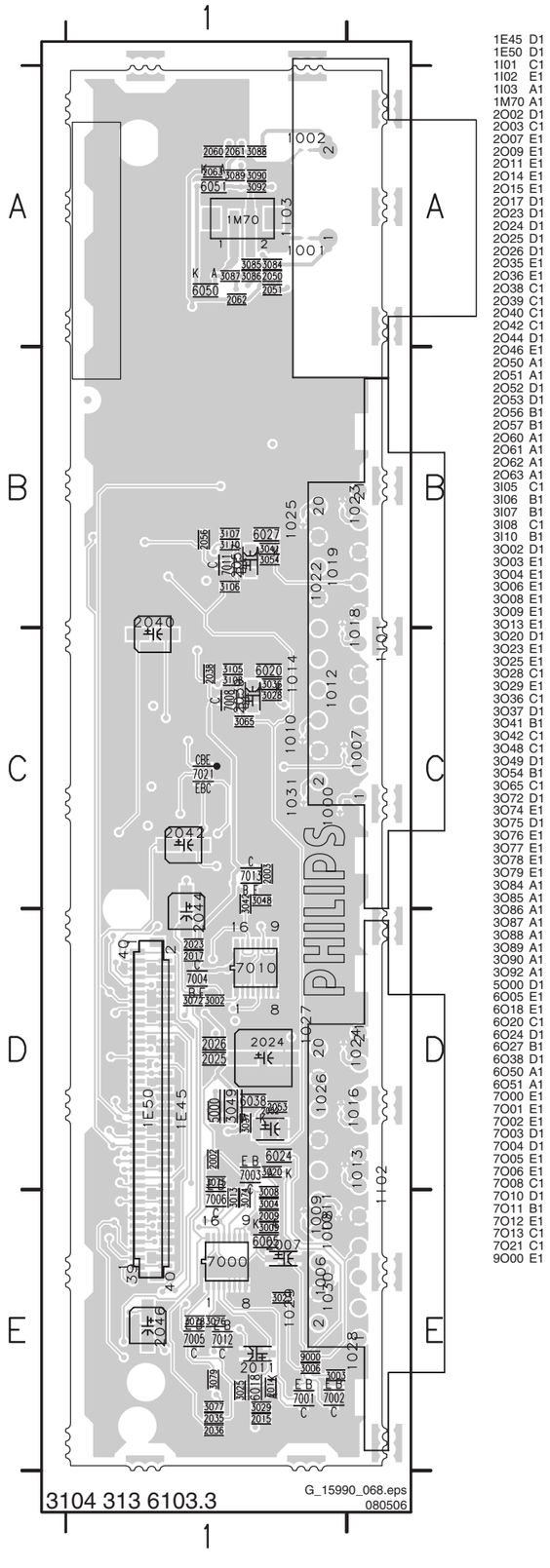
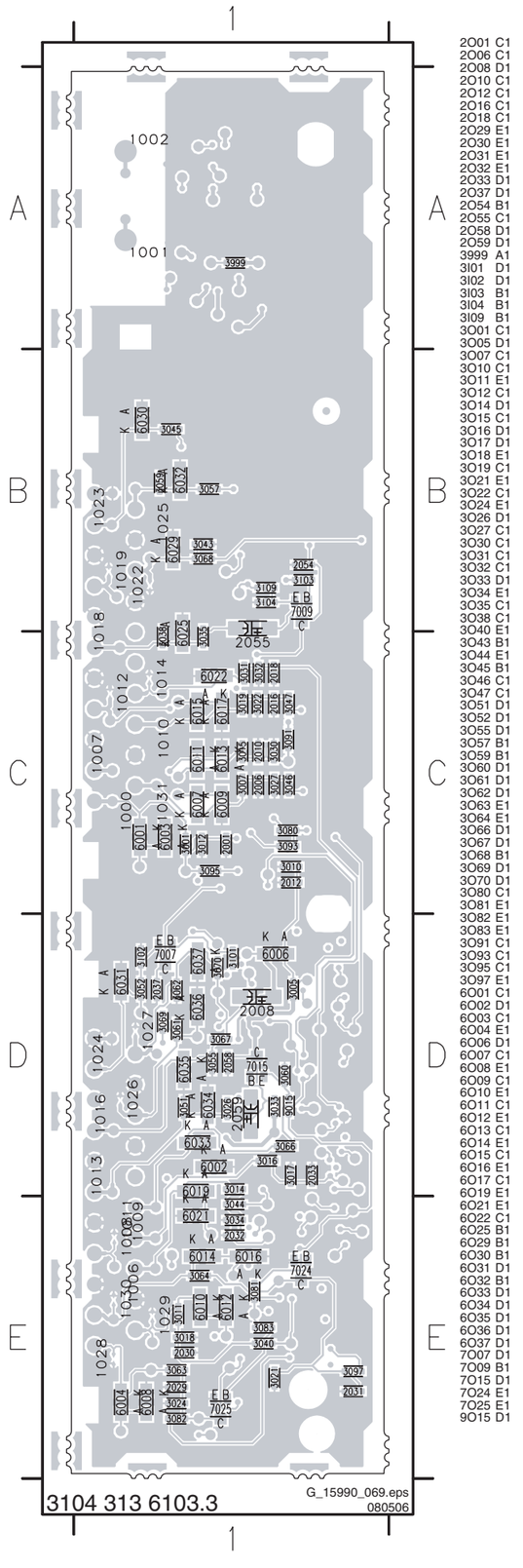
1E50 B3 FO49 D2
1I03 E4 FO90 E2
1M70 E7 FO98 F1
1O01 D4 FO99 F2
1O02 F4 IO50 D5
2O40 A5 IO51 D6
2O42 B5 IO52 E5
2O44 B5 IO53 F5
2O46 C5 IO54 F5
2O50 D5 IO55 F6
2O51 E5 IO56 E7
2O60 F5 IO57 D6
2O61 F5 IO59 F6
2O62 E5 IO60 E5
2O63 E5
3999 F1
3O80 B6
3O81 C6
3O82 C5
3O83 D6
3O84 D5
3O85 D6
3O86 D6
3O87 D7
3O88 F5
3O89 F6
3O90 F6
3O91 A5
3O92 F7
3O93 A6
3O95 B5
3O97 C5
6O50 E7
6O51 F7
7O21-1 B6
7O21-2 A6
7O24 C6
7O25 D6
FO00 B2
FO01 B2
FO02 B2
FO03 B2
FO04 B2
FO05 C2
FO06 B2
FO07 C2
FO08 C2
FO09 C2
FO10 C2
FO11 C2
FO12 C2
FO13 C2
FO14 C2
FO15 A5
FO16 C2
FO19 D2
FO20 D2
FO21 D2
FO22 D2
FO23 D2
FO24 D2
FO25 B5
FO26 C5
FO27 D5
FO28 E2
FO29 D2
FO31 E2
FO32 E2
FO40 D4
FO41 F4
FO42 D7
FO43 F7

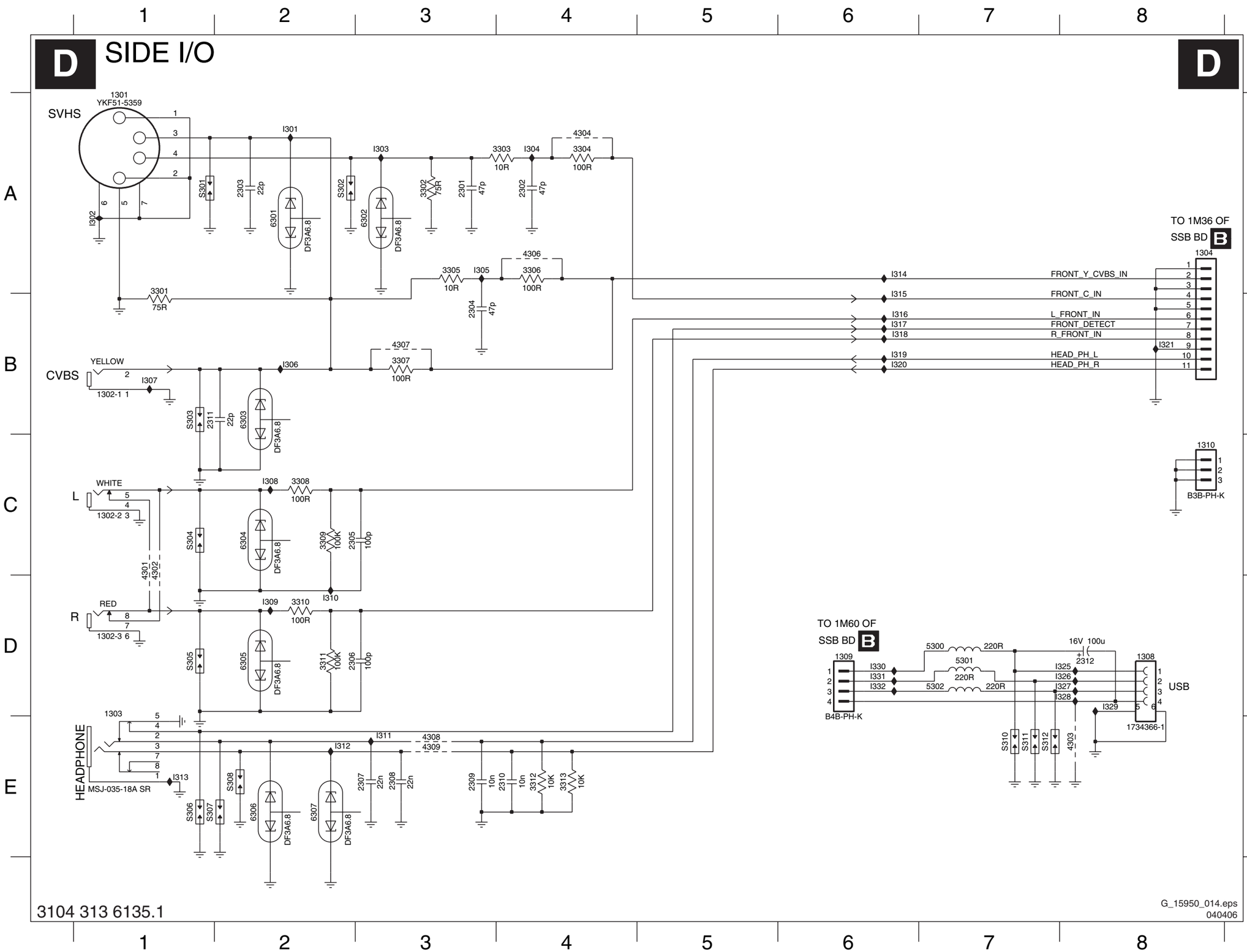
Layout External I/O Panel (Top Side)



Layout External I/O Panel (Bottom Side)



Side I/O Panel (ME6)



3104 313 6135.1

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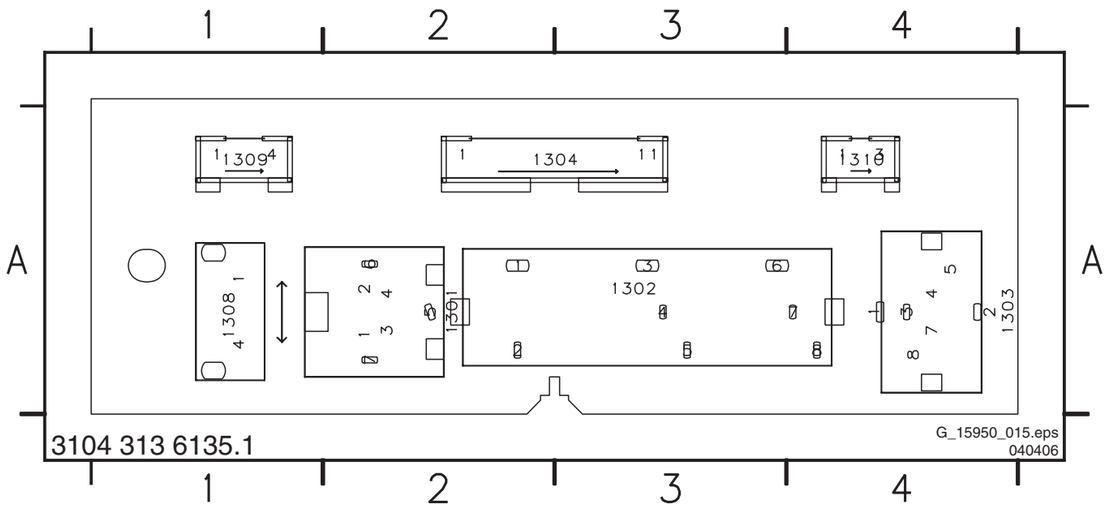
1301 A1	I320 B6
1302-1 B1	I321 B8
1302-2 C1	I325 D8
1302-3 D1	I326 D8
1303 D1	I327 D8
1304 A8	I328 D8
1308 D8	I329 D8
1309 D6	I330 D6
1310 C8	I331 D6
2301 A3	I332 D6
2302 A4	S301 A1
2303 A2	S302 A2
2304 B3	S303 B1
2305 C2	S304 C1
2306 D2	S305 D1
2307 E3	S306 E1
2308 E3	S307 E1
2309 E3	S308 E2
2310 E4	S310 E7
2311 B1	S311 E7
2312 D8	S312 E7
3301 B1	
3302 A3	
3303 A4	
3304 A4	
3305 A3	
3306 A4	
3307 B3	
3308 C2	
3309 C2	
3310 D2	
3311 D2	
3312 E4	
3313 E4	
4301 C1	
4302 C1	
4303 E8	
4304 A4	
4306 A4	
4307 B3	
4308 E3	
4309 E3	
5300 D7	
5301 D7	
5302 D7	
6301 A2	
6302 A3	
6303 B2	
6304 C2	
6305 D2	
6306 E2	
6307 E2	
I301 A2	
I302 A1	
I303 A3	
I304 A4	
I305 A3	
I306 B2	
I307 B1	
I308 C2	
I309 D2	
I310 D2	
I311 E3	
I312 E2	
I313 E1	
I314 A6	
I315 B6	
I316 B6	
I317 B6	
I318 B6	
I319 B6	

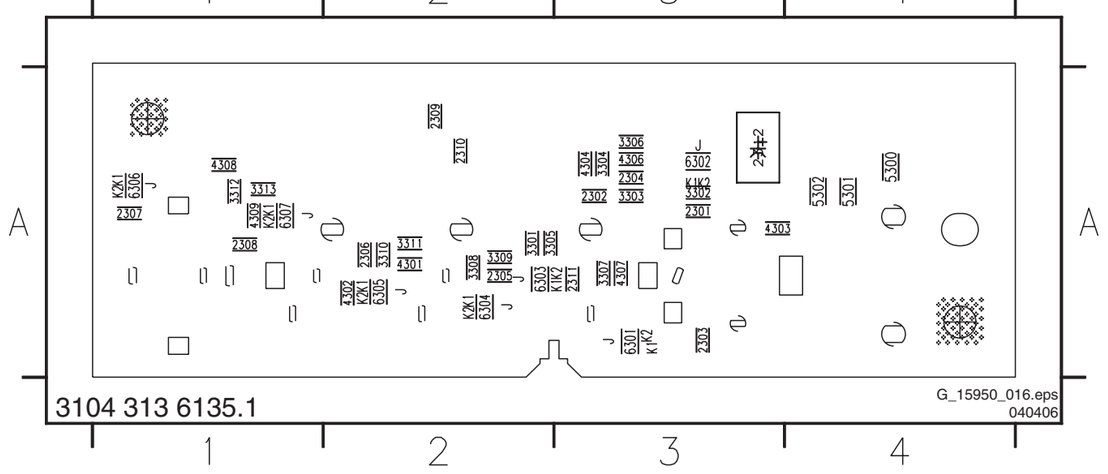
Layout Side I/O Panel (ME6) (Top Side)

1301 A2 1302 A3 1303 A4 1304 A2 1308 A1 1309 A1 1310 A4



Layout Side I/O Panel (ME6) (Bottom Side)

2301 A3 2307 A1 3301 A2 3307 A3 3313 A1 4307 A3 6301 A3 6307 A1
2302 A3 2308 A1 3302 A3 3308 A2 4301 A2 4308 A1 6302 A3
2303 A3 2309 A2 3303 A3 3309 A2 4302 A2 4309 A1 6303 A2
2304 A3 2310 A2 3304 A3 3310 A2 4303 A3 5300 A4 6304 A2
2305 A2 2311 A3 3305 A2 3311 A2 4304 A3 5301 A4 6305 A2
2306 A2 2312 A3 3306 A3 3312 A1 4306 A3 5302 A4 6306 A1



Personal Notes:

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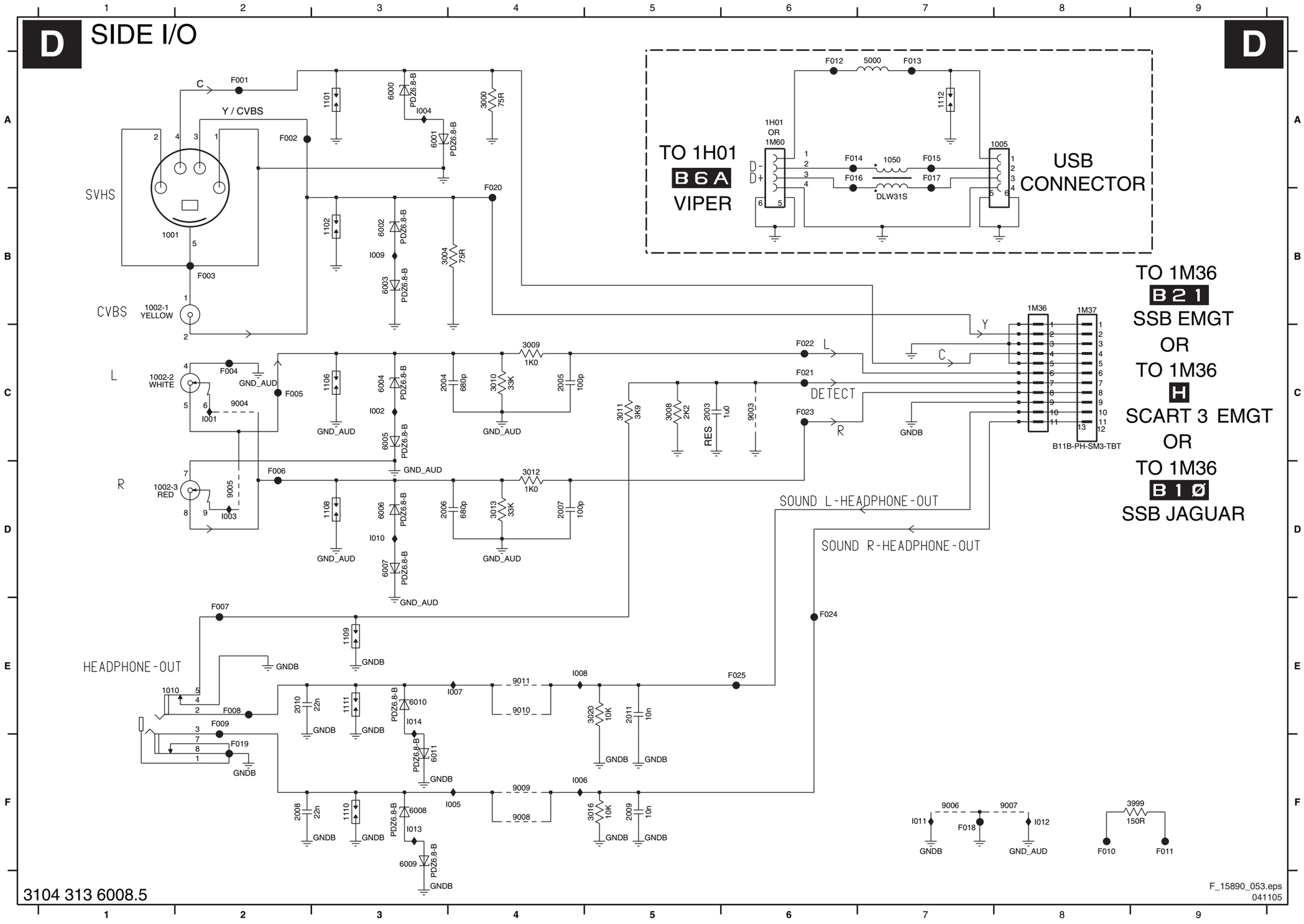
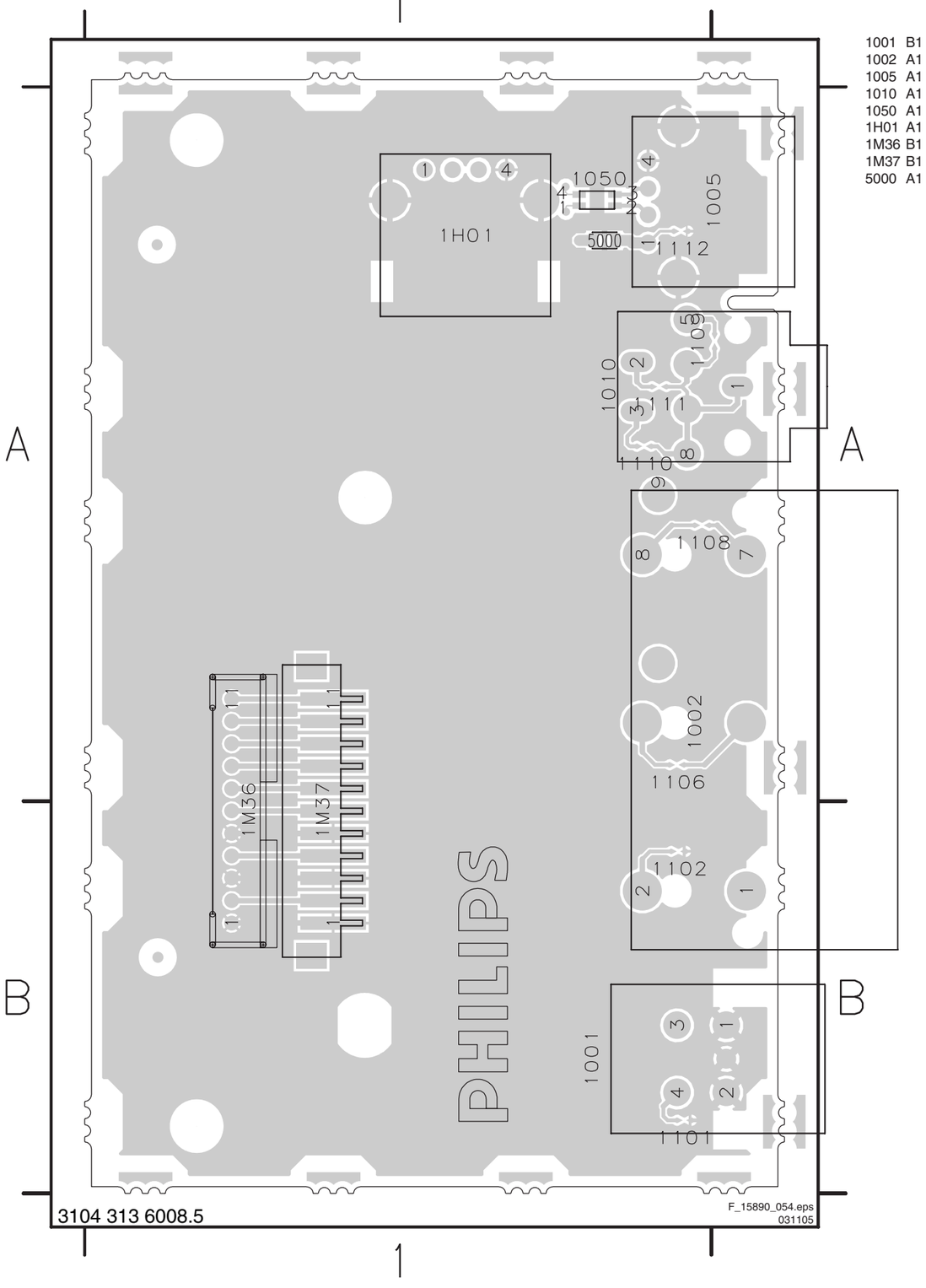
Side I/O Panel (32PF9731D/10)



1001 B2 F002 A2
1002-1 B1 F003 B2
1002-2 C1 F004 C2
1002-3 D1 F005 C2
1005 A8 F006 D2
1010 E1 F007 E2
1050 A7 F008 E2
1101 A3 F009 E2
1102 B3 F010 F8
1106 C3 F011 F9
1108 D3 F012 A6
1109 E3 F013 A7
1110 F3 F014 A6
1111 E3 F015 A7
1112 A7 F016 A6
1H01 A6 F017 A7
1M36 B8 F018 F7
1M37 B8 F019 F2
2003 C5 F020 B4
2004 C3 F021 C6
2005 C4 F022 C6
2006 D3 F023 C6
2007 D4 F024 E6
2008 F2 F025 E6
2009 F5 I001 C2
2010 E2 I002 C3
2011 E5 I003 D2
3000 A4 I004 A3
3004 B3 I005 F4
3008 C5 I006 F4
3009 C4 I007 E4
3010 C4 I008 E4
3011 C5 I009 B3
3012 D4 I010 D3
3013 D4 I011 F7
3016 F5 I012 F8
3020 E5 I013 F3
3999 F9 I014 E3
5000 A7
6000 A3
6001 A3
6002 B3
6003 B3
6004 C3
6005 C3
6006 D3
6007 D3
6008 F3
6009 F3
6010 E3
6011 F3
9003 C6
9004 C2
9005 D2
9006 F7
9007 F8
9008 F4
9009 F4
9010 E4
9011 E4
F001 A2

Layout Side I/O Panel (32PF9731D/10)(Top Side)



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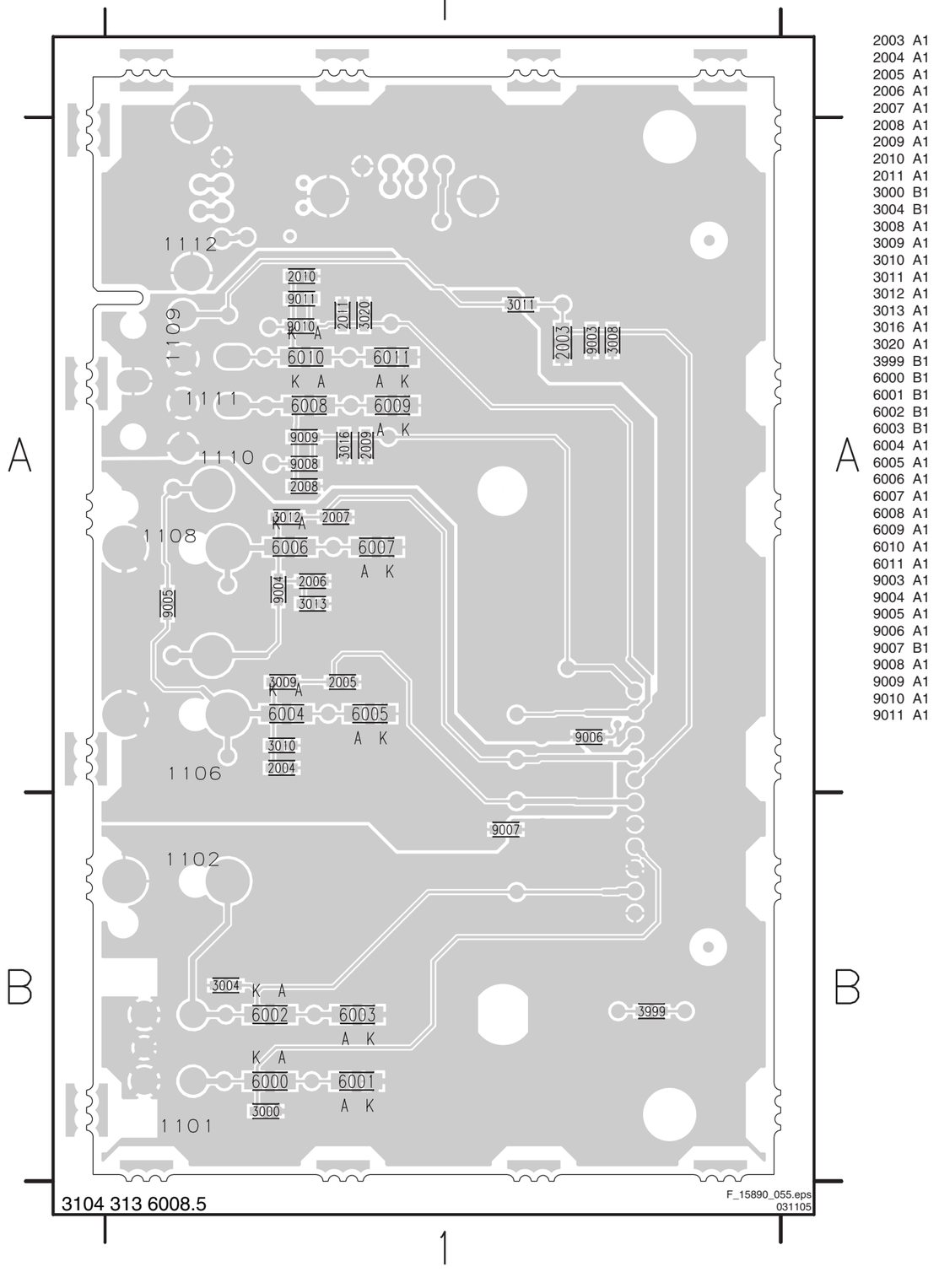
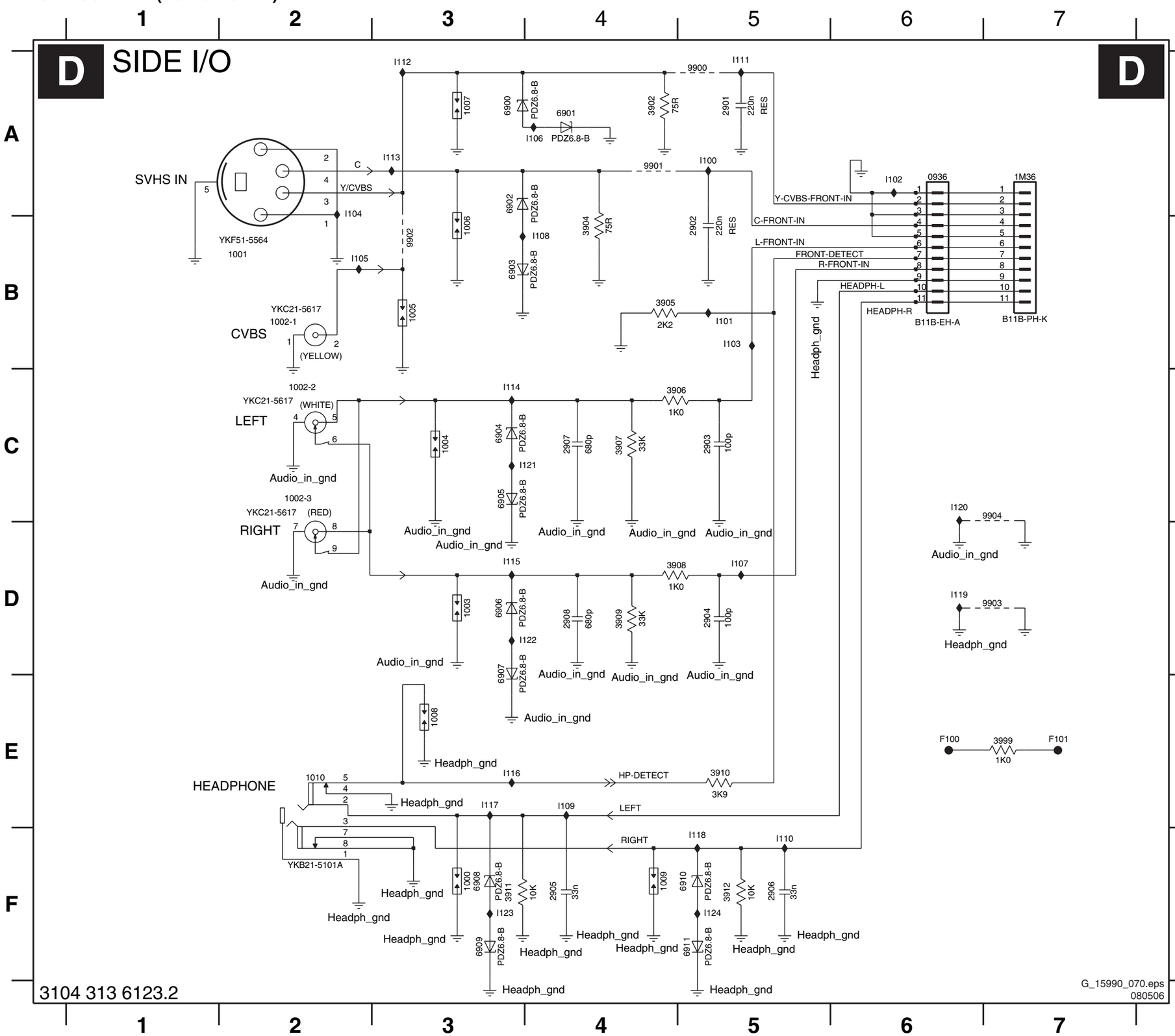
Layout Side I/O Panel (32PF9731D/10)(Bottom Side)



3104 313 6008.5

F_15890_055.eps
031105

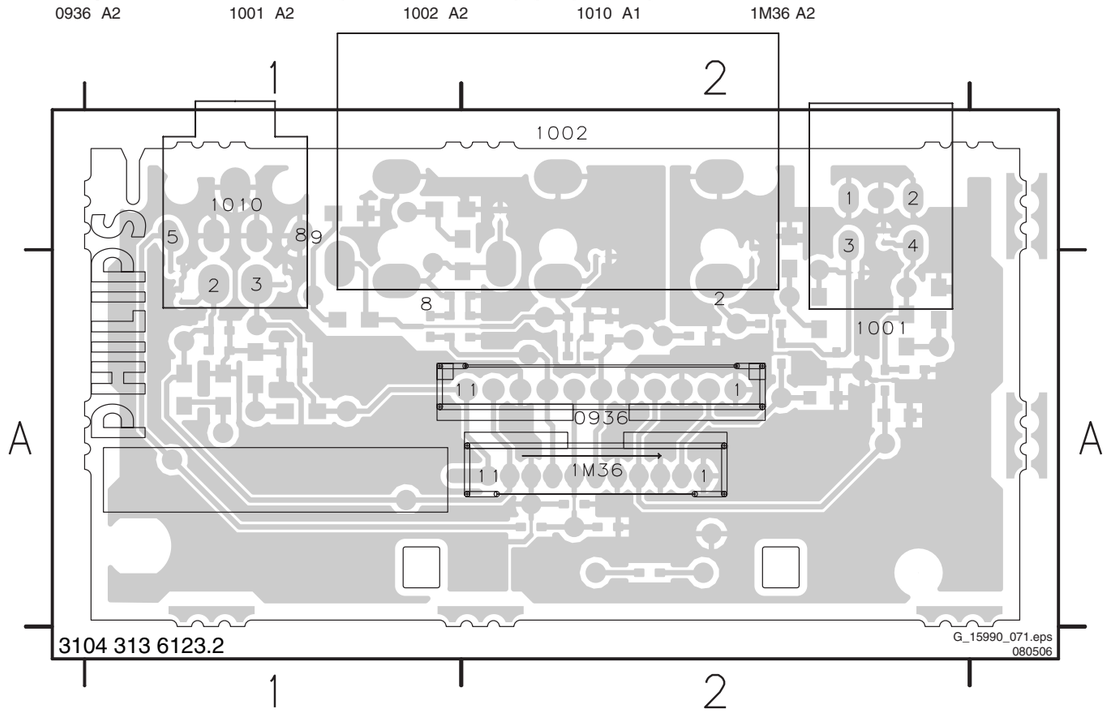
Side I/O Panel (TOP 37"& 42")



0936 A6 I123 F3
1000 F3 I124 F5
1001 B2
1002-1 B2
1002-2 C2
1002-3 C2
1003 D3
1004 C3
1005 B3
1006 B3
1007 A3
1008 E3
1009 F4
1010 E2
1M36 A7
2901 A5
2902 B5
2903 C5
2904 D5
2905 F4
2906 F5
2907 C4
2908 D4
3902 A4
3904 B4
3905 B4
3906 C4
3907 C4
3908 D4
3909 D4
3910 E5
3911 F3
3912 F5
3999 E7
6900 A3
6901 A4
6902 A3
6903 B3
6904 C3
6905 C3
6906 D3
6907 D3
6908 F3
6909 F3
6910 F5
6911 F5
9900 A5
9901 A4
9902 B3
9903 D7
9904 C7
F100 E6
F101 E7
I100 A5
I101 B5
I102 A6
I103 B5
I104 A2
I105 B2
I106 A4
I107 D5
I108 B4
I109 E4
I110 F5
I111 A5
I112 A3
I113 A3
I114 C3
I115 D3
I116 E3
I117 E3
I118 F5
I119 D6
I120 C6
I121 C4
I122 D4

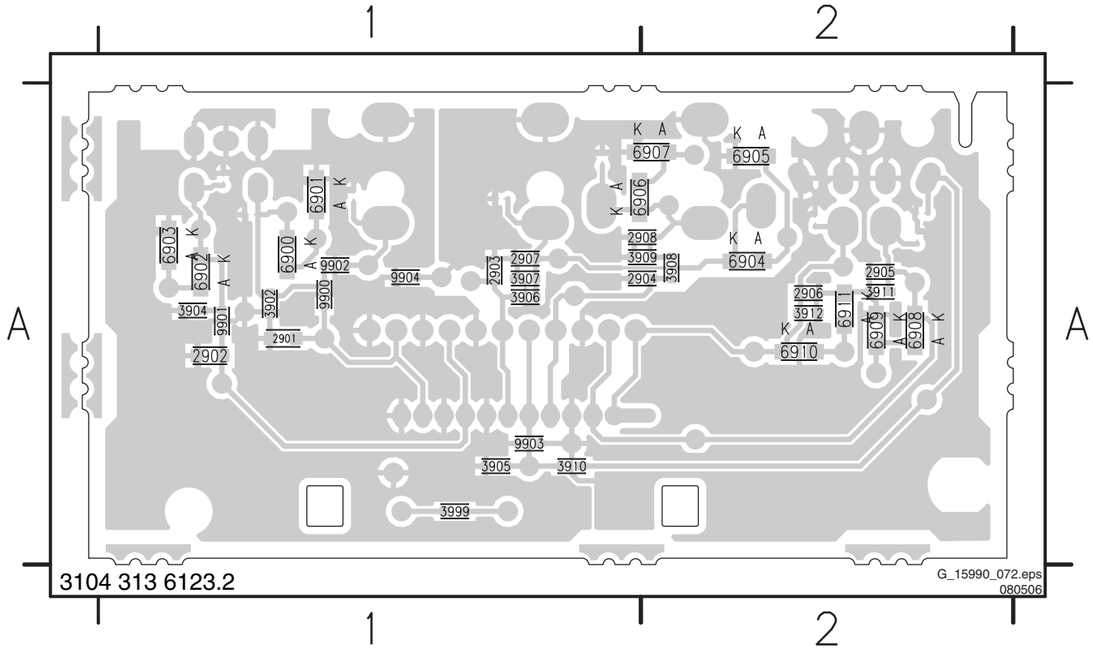
Layout Side I/O Panel (TOP 37”& 42”) (Top Side)

0936 A2 1001 A2 1002 A2 1010 A1 1M36 A2



Layout Side I/O Panel (TOP 37”& 42”) (Bottom Side)

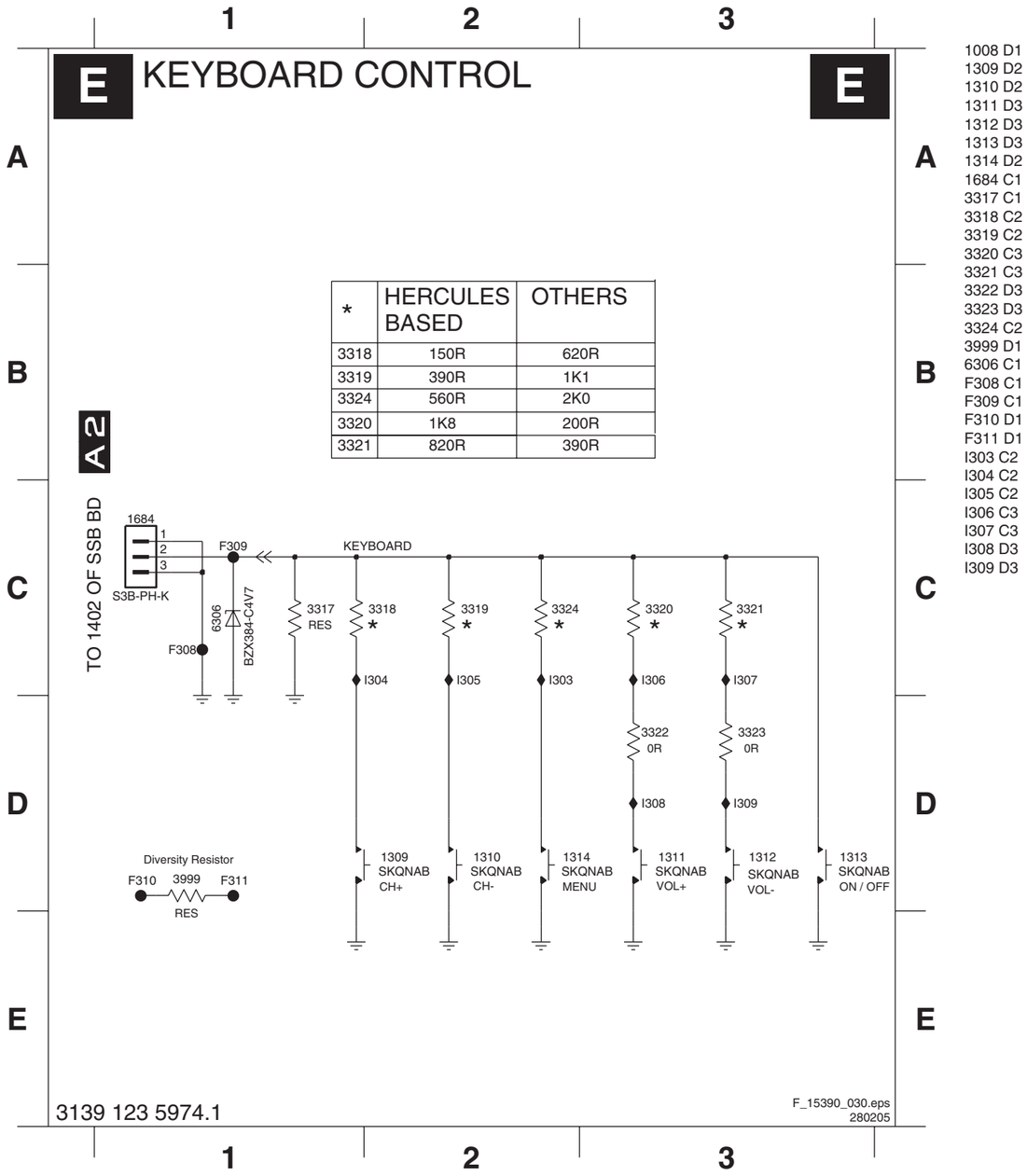
2901 A1 2904 A2 2907 A1 3904 A1 3907 A1 3910 A1 3999 A1 6902 A1 6905 A2 6908 A2 6911 A2 9902 A1
2902 A1 2905 A2 2908 A2 3905 A1 3908 A2 3911 A2 6900 A1 6903 A1 6906 A2 6909 A2 9900 A1 9903 A1
2903 A1 2906 A2 3902 A1 3906 A1 3909 A2 3912 A2 6901 A1 6904 A2 6907 A1 6910 A2 9901 A1 9904 A1



Personal Notes:

E_06532_012.eps
131004

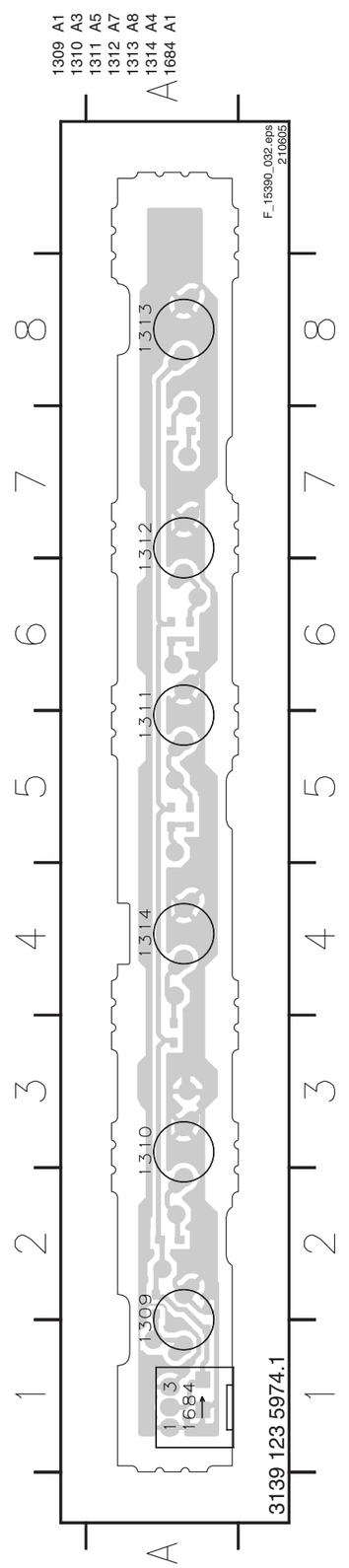
Control Panel (ME6 32”)



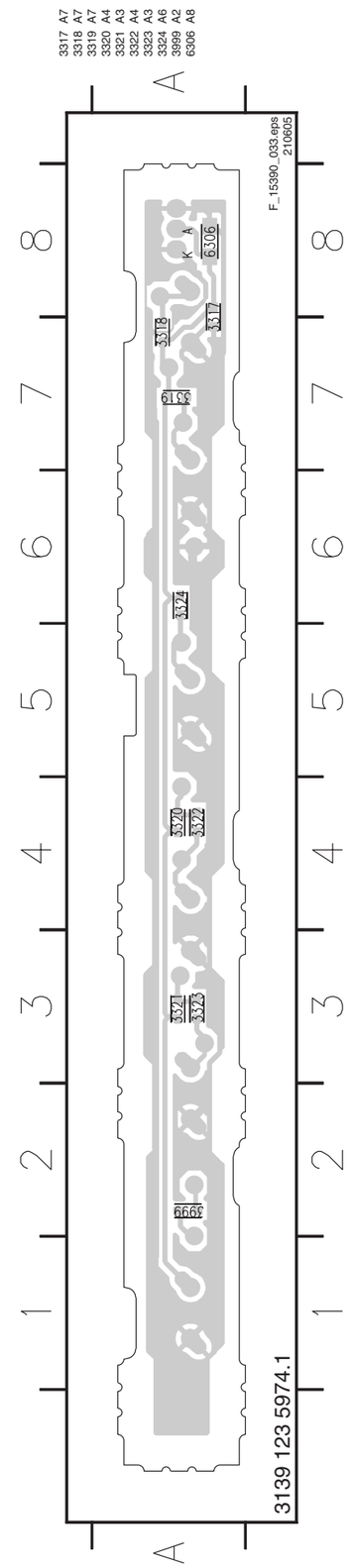
*	HERCULES BASED	OTHERS
3318	150R	620R
3319	390R	1K1
3324	560R	2K0
3320	1K8	200R
3321	820R	390R

1008 D1
1309 D2
1310 D2
1311 D3
1312 D3
1313 D3
1314 D2
1684 C1
3317 C1
3318 C2
3319 C2
3320 C3
3321 C3
3322 D3
3323 D3
3324 C2
3999 D1
6306 C1
F308 C1
F309 C1
F310 D1
F311 D1
I303 C2
I304 C2
I305 C2
I306 C3
I307 C3
I308 D3
I309 D3

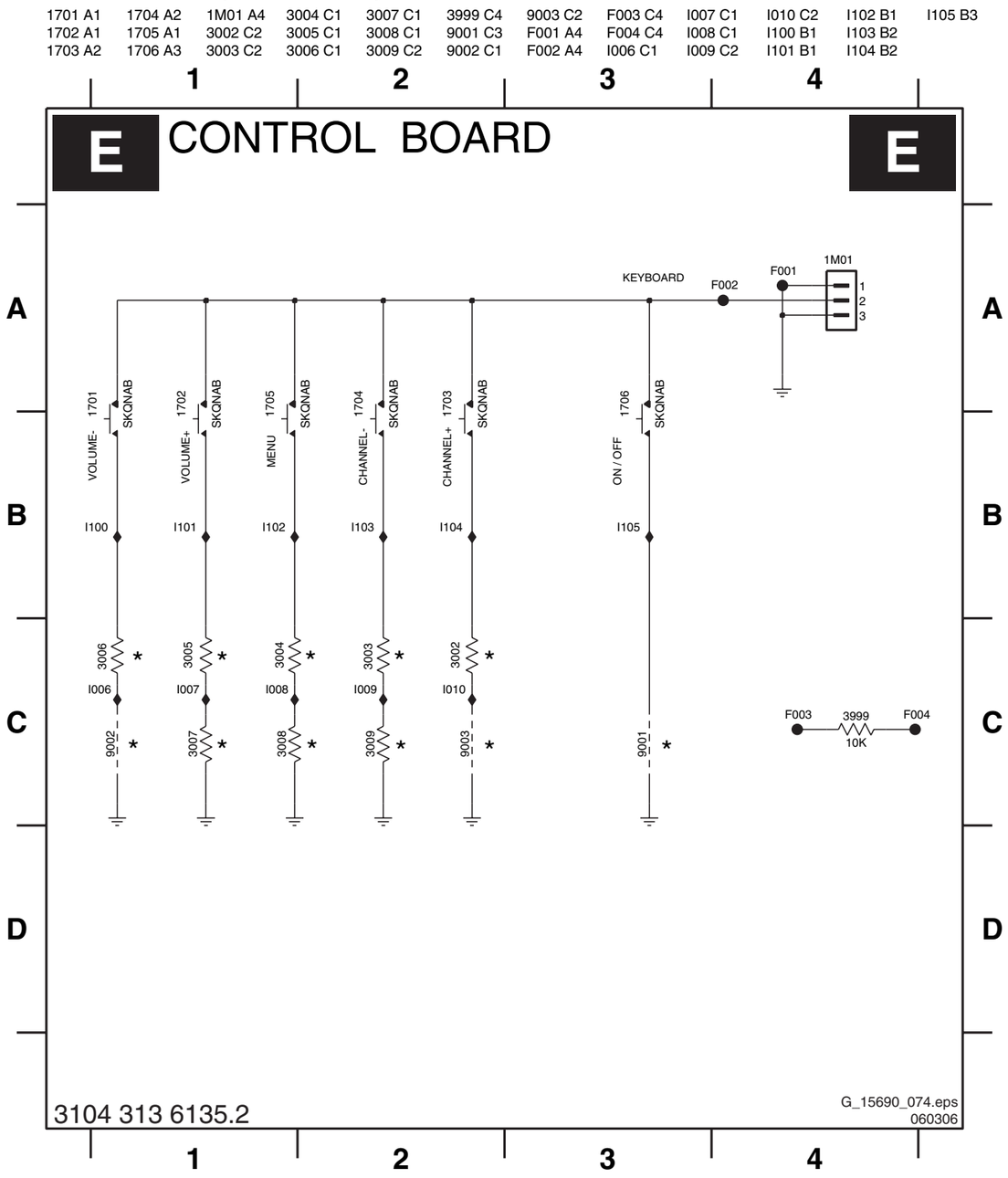
Layout Control Panel (Top Side)



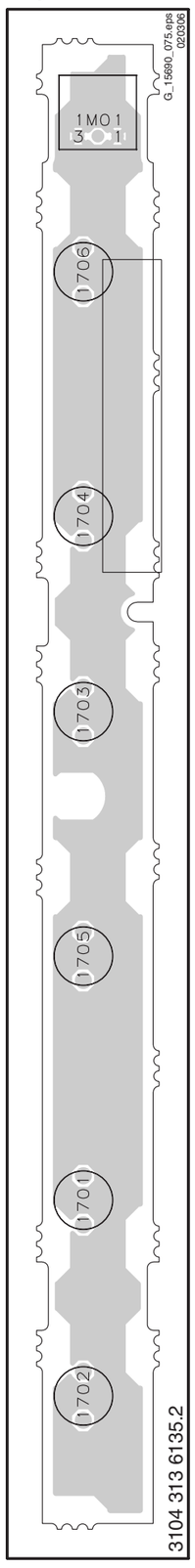
Layout Control Panel (Bottom Side)



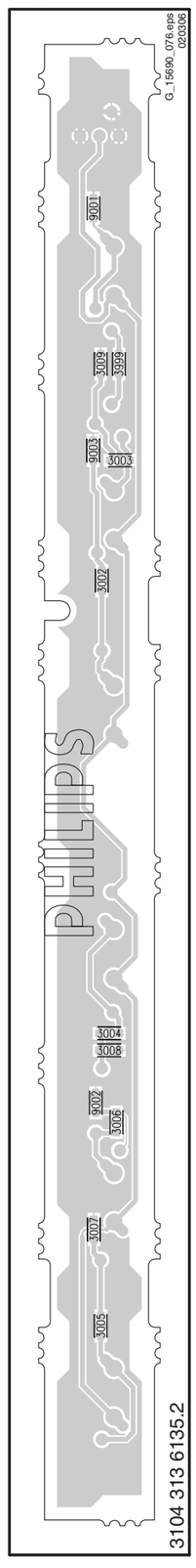
Control Panel (TOP 37”&42”)



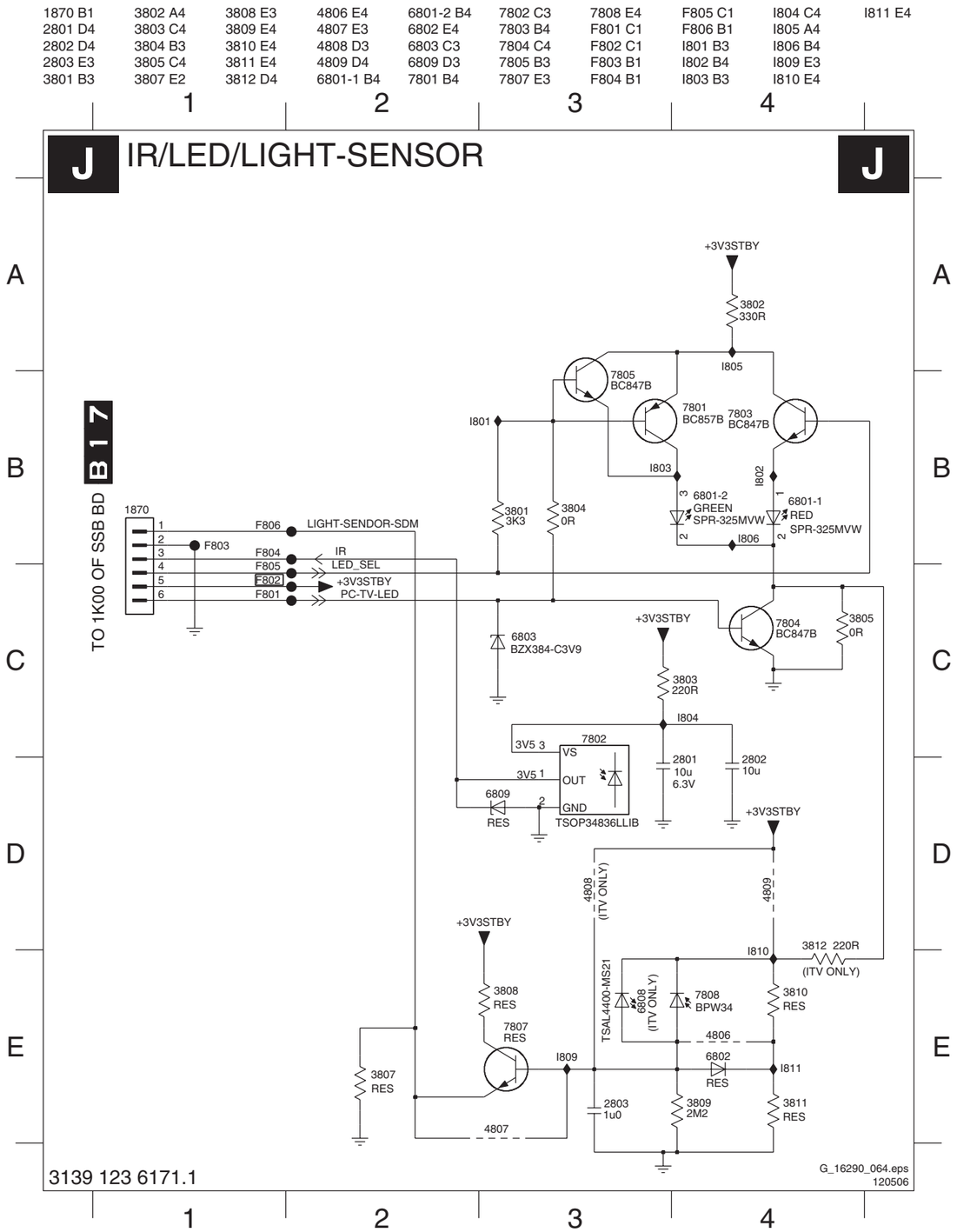
Layout Control Panel (Top Side)



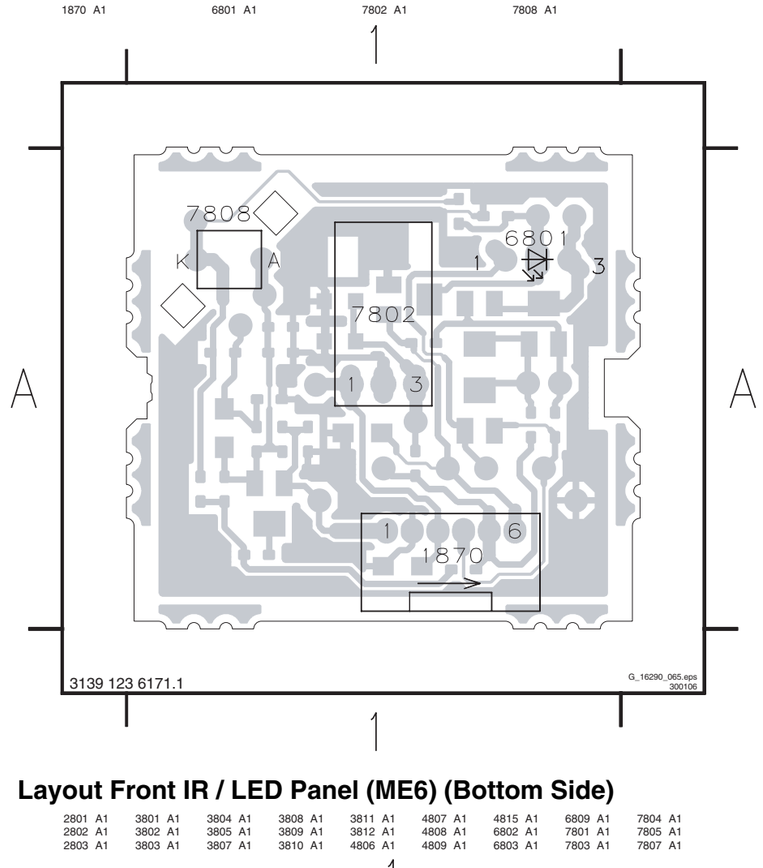
Layout Control Panel (Bottom Side)



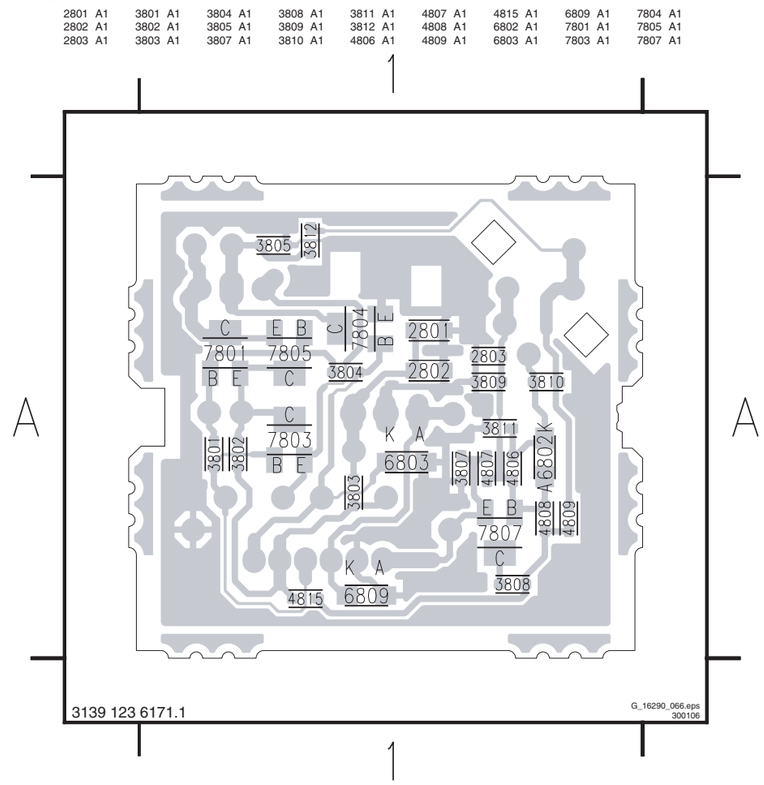
Front IR / LED Panel (ME6)



Layout Front IR / LED Panel (ME6) (Top Side)

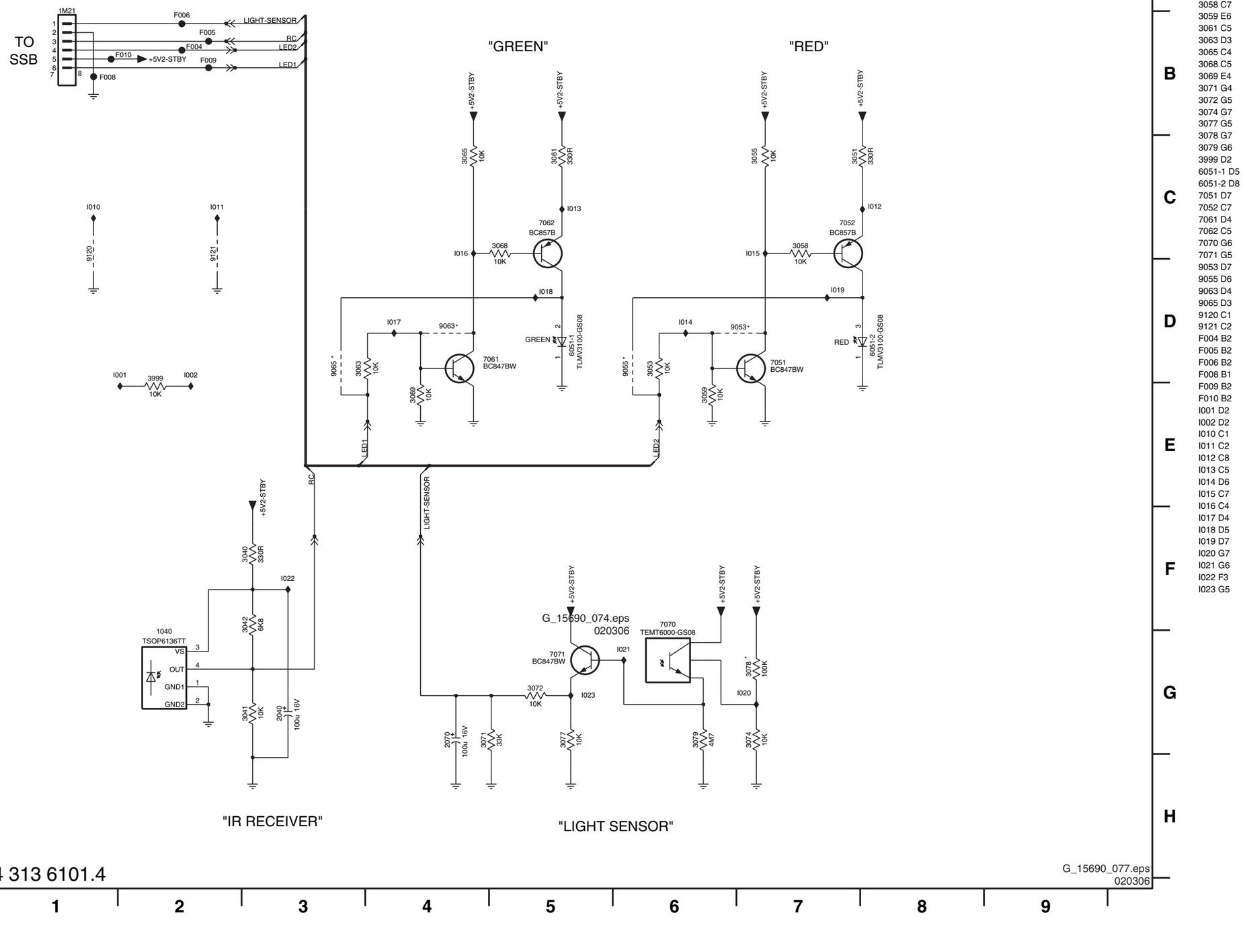


Layout Front IR / LED Panel (ME6) (Bottom Side)



LED Panel (TOP)

LED PANEL



1040 G2
1M20 B1
2040 G3
2070 G4
3040 F3
3041 G3
3042 F3
3051 C7
3053 D6
3055 C7
3058 C7
3059 E6
3061 C5
3063 D3
3065 C4
3068 C5
3069 E4
3071 G4
3072 G5
3074 G7
3077 G5
3078 G7
3079 G6
3999 D2
6051-1 D5
6051-2 D8
7051 D7
7052 C7
7061 D4
7062 C5
7070 G6
7071 G5
9053 D7
9055 D6
9063 D4
9065 D3
9120 C1
9121 C2
F004 B2
F005 B2
F006 B2
F008 B1
F009 B2
F010 B2
I001 D2
I002 D2
I010 C1
I011 C2
I012 C8
I013 C5
I014 D6
I015 C7
I016 C4
I017 D4
I018 D5
I019 D7
I020 G7
I021 G6
I022 F3
I023 G5

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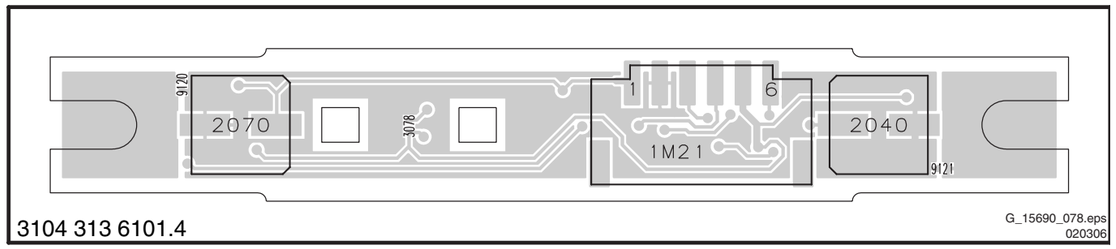
Layout LED Panel (TOP) (Top Side)



3104 313 6101.4

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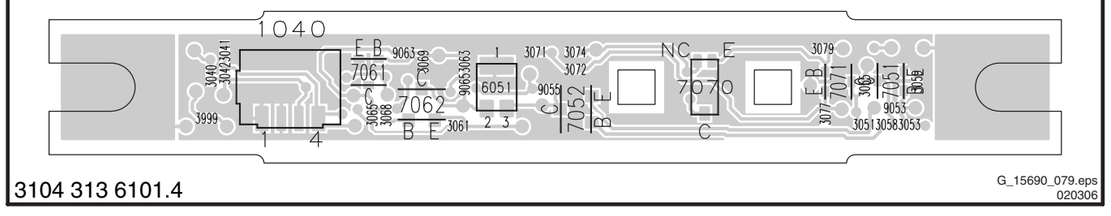
020306

Layout LED Panel ((TOP) (Bottom Side)



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020306

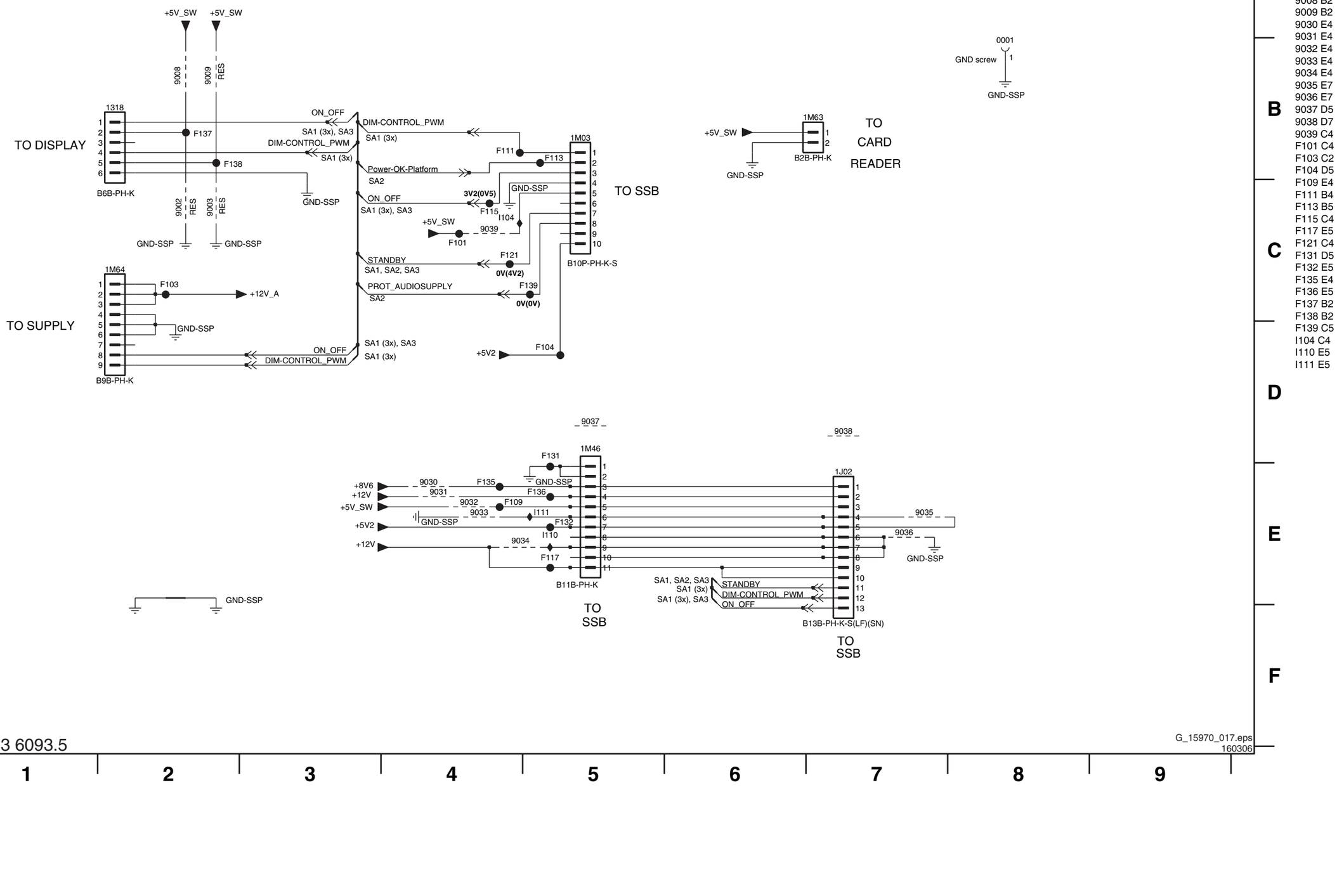
Personal Notes:

E_06532_012.eps
131004

Stand-by & Audio Panel: Connections

SA1 CONNECTIONS

SA1



0001 A8
1318 B2
1J02 E7
1M03 B5
1M46 D5
1M63 B7
1M64 C2
9002 C2
9003 C2
9008 B2
9009 B2
9030 E4
9031 E4
9032 E4
9033 E4
9034 E4
9035 E7
9036 E7
9037 D5
9038 D7
9039 C4
F101 C4
F103 C2
F104 D5
F109 E4
F111 B4
F113 B5
F115 C4
F117 E5
F121 C4
F131 D5
F132 E5
F135 E4
F136 E5
F137 B2
F138 B2
F139 C5
I104 C4
I110 E5
I111 E5

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Stand-by & Audio Panel: Stand-by

SA2 STANDBY

SA2

HOT GROUND

COLD GROUND

400V_HOT

TO SUPPLY

+5V2

+5V_SW

+12V_A

+12V

+8V6

+11V

+AUX

SA1

SA1(2x),SA3

Power-OK-Platform

STANDBY

TO SUPPLY

12V6(1V)

9V(1V3)

0V (2V)

0V6(0V)

0V (4V2)

0V7 (0V6)

11V7 (0V6)

5V1(5V1)

4V(4V)

2V5(2V5)

12V4(11V3)

13V6(12V4)

PROT_AUDIOSUPPLY

GNDHOT

GND-SSP

TEA1533AT/N1

STP6NK60Z

TCET1102(G)

TS2431

BSP030

PMSTA42

BC857BW

BC847BW

BC817-25W

BZX384-C15

BZX384-C12

BZX384-C22

BZX384-C25V6

BYW29EX-200

BYV27-600

STPS8H100FP

SB340

STP16NF06FP

BAS316

BA154 COL

PDZ23.9-B

PDZ2.7-B

PDZ5.9-B

PDZ9.1-B

1301 HEATSINK

1310 HEATSINK

1311 HEATSINK

1301 B1
1305 E13
1306 B3
1310 A12
1311 A12
2102 H1
2103 H1
2105 B5
2106 B5
2107 B5
2108 B5
2109 G7
2118 E7
2129 C6
2131 C10
2132 C11
2140 G8
2141 E7
2143 D7
2145 E4
2152 C5
2154 G10
2160 D9
2163 G3
2503 E11
2506 D6
2507 C7
2508 D7
2509 G14
2510 F8
2511 C9
2513 E7
2518 B9
2522 B9
2523 A10
2533 F11
2534 F8
2535 E10
2536 D12
2537 D13
2538 B13
2539 F8
2540 H13
2541 F8
2544 H13
3104 D3
3106 F2
3108 E4
3109 E4
3110 G7
3112 H1
3113 G7
3114 G6
3122 C6
3123 G7
3124 F7
3125 G2
3126 F2
3127 F4
3128 G7
3132 E9
3134 D11
3135 D10
3137 C8
3139 C8
3140 D8
3141 G10
3142 G9
3146 F5
3148 F3
3149 F2
3152 E3
3153 D8
3159 F8
3160 E4
3161 C10
3171 D9
3172 D10
3175 G8
3176 G10
3502 D9
3503 E11
3504 E11
3506 H12
3507 G14
3508 G13
3510 G12
3511 C9
3512 D9
3513 E10
3514 B7
3515 B11
3516 A10
3517 B11
3518 B7
3519 B8
3520 B7
3521 B8
3522 A9
3523 A9
3524 A10
3528 C11
3529 D12
3530 D13
3531 D13
3532 C12
3534 C14
3535 B13
3536 B13
3538 G8
3539 D14
3540 G13

3541 G12
3542 H13
3543 D13
3544 G12
3560 F12
3561 F12
3562 F12
3999 I8
5103 E7
5104 C5
5105 D5
5106 F4
5107 B1
5108 D5
5110 C6
5112 D7
5115 B8
5500 C6
5504 C3
5505 C4
5506 E9
5507 C10
5508 C4
6101 B4
6102 F2
6103 F3
6105 D4
6107 F7
6109 B8
6110 A8
6113 D7
6115 G2
6125 C9
6130 C10
6132 D10
6133 D9
6134 D9
6140 E7
6144 E2
6147 E5
6148 F8
6149 F9
6503 D9
6504 B7
6505 F7
6507 B14
6510 D14
6513 B8
6514 B7
6532 D11
6534 C13
6535 C13
6540 G12
6562 F13
7100 C1
7101 F2
7102 D4
7131 C10
7140 G10
7501 F6
7503 D11
7505 H13
7506 D11
7507 D12
7509 H12
7510 G13
7511 G6
7512 A11
7513 B8
7514 A9
7531 F10
7532 E9
7534 B14
7560 F12
9123 C13
9124 D14
F100 E4
F102 D4
F123 C3
F124 C3
F125 E13
F126 E13
F133 I8
F134 I8
I100 C4
I101 B6
I102 B7
I103 C9
I105 C7
I106 D11
I107 D8
I108 D9
I109 D11
I112 D10
I113 C4
I114 C6
I115 D12
I116 D10
I117 D12
I118 C5
I119 C4
I120 C6
I121 D13
I122 D3
I123 D6
I124 D5
I125 D8
I126 D9
I127 C9
I128 D7
I129 E7
I130 D3

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Stand-by & Audio Panel: Supply

SA3 SUPPLY

SA3

HOT-GROUND

COLD-GROUND

400V_HOT

277V(279V)

IU24

5U05 80R

2U07 10u 450V

2U08 10u 450V

2U02 10n

GNDHOT

IU14

IU20

5U03 80R

IU15

2U22 47n

3U22 330K

IU39

BYV27-600

6U22

5U00

6U07 BYW29EX-200

IU17

5U10 80R

IU12

2U05 2n2

IU18

5U17 15u

+12VA2

9U17 RES

FU05

FU06

1M08 B4B-PH-K

1M10 B6B-PH-K

2U14 2m2 16V

IU16

5U08 30R

2U06 470p

7U10 TEA1533AT/N1

SPMS CTRL

VCC

CTRL

DEM

ISENSE

DRAIN

NC

DRIVER

HVS

GND

7U02 STP6NK60Z

IU29

3U07 22R

IU22

IU38

6U05 BZX384-C15

IU35

FU02

IU21

3U08 0R47

3U09 0R47

3U05 470R

IU23

3U06 12K

2U11 470n

IU36

IU13

5U06 22u

IU07

3U17 4K7

IU08

IU09

7U01 TCET1102(G)

RES 6U32 BAS316

FU01

+5V2

IU01

3U12 1K0

3U11 2K2 RES

3U13 6K8 1%

1U11 HEATSINK

IU02

2U13 47n

IU28

3U14 15K

7U05 TS2431

IU04

3U15 1K8 1%

3U16 100K

6U11 BAS316

IU06

IU10

3U23 56K

IU27

3U01 100K

3U02 470K

IU19

3U04 33K

3U03 33K

6U04 BAT54 COL RES

6U03 BYG22D

BAS316 6U01

13V7(13V7)

IU40

+AUX

3U20 4K7

IU30

IU33

12V9(12V9)

6U02 BAT54 COL

IU11

7U15 BC817-25W

IU37

3U19 10R

6U25 BAT54 COL

IU26

3U27 47K

IU50

7U03 BC847BW RES

IU31

3U25 47K

7U04 TCET1102(G)

IU32

IU34

3U21 820R

3U26 47K

2U09 22u 50V

IU25

3U18 4K7

IU41

BZX384-C15

6U15

2U15 22u 50V

3U33 3K3

3U32 3K3

IU47

3U37 47K

6U09 BAS316

IU44

7U08 BC847BW

IU45

3U35 47K

STANDBY

04(4V2)

SA1 (2x), SA2

3U36 47K

3U29 100R

IU03

7U07 BC847BW

IU05

3U31 47K

IU42

6U08 BAS316

IU43

3U38 1K0

ON_OFF

3V2(0V5)

SA1 (4x)

3U43 220K

2U37 22u

2U38 22u

2U10 22n

3U10 1K0

BC857BW 7U16

6U26 BAT54 COL

IU48

+AUX

3U28 47K

IU49

1U01 HEATSINK

5U07 120R

IU46

3104 313 6093.5

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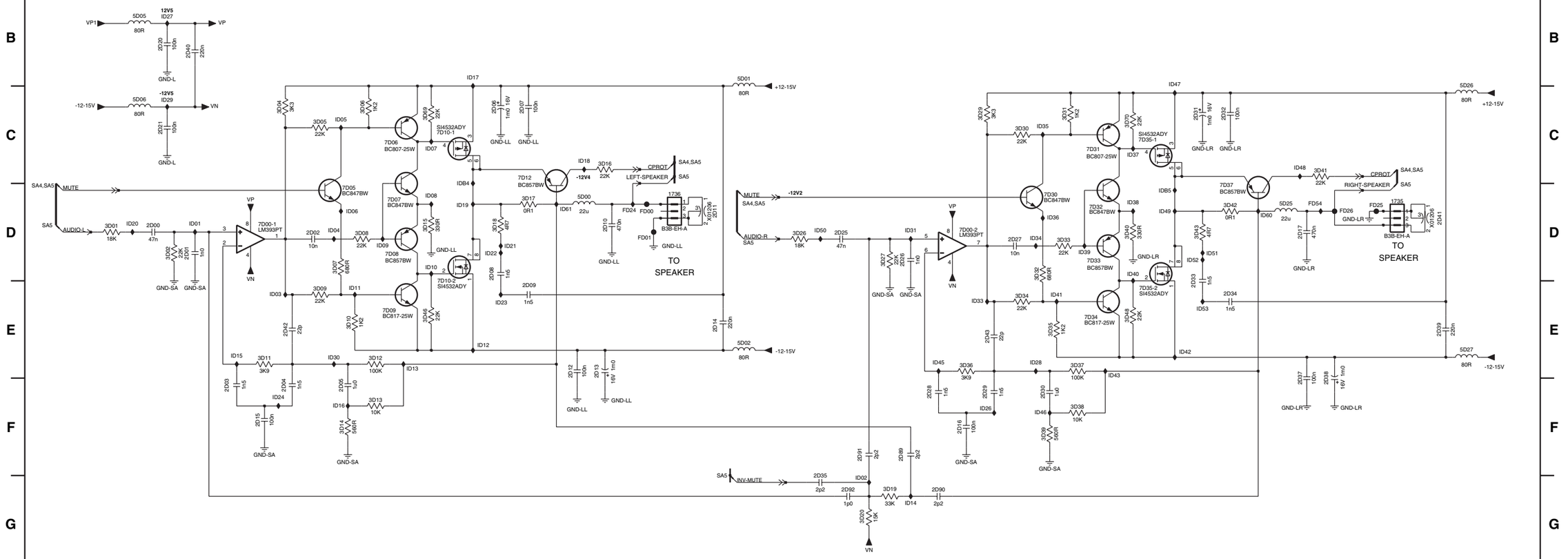
1M08 B9 7U02 B4
1M10 C9 7U03 E5
1U01 F5 7U04 E6
1U11 D9 7U05 D7
2U02 B3 7U07 F6
2U05 B7 7U08 E7
2U06 C6 7U10 B2
2U07 B2 7U15 E2
2U08 B2 7U16 F4
2U09 E1 9U17 B8
2U10 F2 FU01 C7
2U11 C4 FU02 B4
2U13 D7 FU05 B8
2U14 B8 FU06 B8
2U15 E3 IU01 D7
2U22 A5 IU02 D7
2U37 F7 IU03 E6
2U38 F7 IU04 D7
3U01 D2 IU05 F7
3U02 D2 IU06 D2
3U03 D3 IU07 C5
3U04 D3 IU08 D5
3U05 C3 IU09 D5
3U06 C4 IU10 D1
3U07 B3 IU11 E2
3U08 C4 IU12 B7
3U09 C5 IU13 C4
3U10 F2 IU14 A5
3U11 D6 IU15 B5
3U12 D7 IU16 B5
3U13 D8 IU17 B6
3U14 D7 IU18 B7
3U15 E8 IU19 D3
3U16 E8 IU20 B4
3U17 D5 IU21 B5
3U18 E2 IU22 B3
3U19 E3 IU23 C3
3U20 D5 IU24 A2
3U21 E6 IU25 E2
3U22 A5 IU26 E4
3U23 D2 IU27 D2
3U25 E5 IU28 D7
3U26 E5 IU29 B3
3U27 E4 IU30 D5
3U28 F4 IU31 E5
3U29 E6 IU32 E6
3U31 F7 IU33 E1
3U32 E4 IU34 E6
3U33 E3 IU35 C3
3U35 E8 IU36 C3
3U36 F8 IU37 E2
3U37 E7 IU38 B3
3U38 F8 IU39 A5
3U43 F7 IU40 D5
5U00 A6 IU41 E3
5U03 B4 IU42 F7
5U05 A3 IU43 F8
5U06 C5 IU44 E7
5U07 F5 IU45 E8
5U08 B5 IU46 F5
5U10 B6 IU47 E3
5U17 B8 IU48 F3
6U01 D5 IU49 F4
6U02 E1 IU50 E5
6U03 D3
6U04 D1
6U05 B4
6U07 A7
6U08 F8
6U09 E7
6U11 D2
6U15 E2
6U22 A5
6U25 E3
6U26 F3
6U32 C7
7U01 D6

Stand-by & Audio Panel: Audio Left / Right

1735 D14 1736 D7 2D00 D2 2D01 D2 2D02 D3 2D03 F2 2D04 F3 2D05 F3 2D06 C5 2D07 C5 2D08 D5 2D09 E5 2D10 D6 2D11 D7 2D12 E6 2D13 E6 2D14 E7 2D15 F3 2D16 F10 2D17 D13 2D20 B2 2D21 C2 2D25 D9 2D26 D9 2D27 D10 2D28 F9 2D29 F10 2D30 F11 2D31 C12 2D32 C13 2D33 D12 2D34 E13 2D35 G8 2D37 E13 2D38 E14 2D39 E15 2D40 B2 2D41 D15 2D42 E3 2D43 E10 2D89 F9 2D90 G10 2D91 F9 2D92 G9 3D01 D1 3D02 D2 3D04 C3 3D05 C3 3D06 C4 3D07 D3 3D08 D4 3D09 E3 3D10 E4 3D11 E3 3D12 E4 3D13 F4 3D14 F3 3D15 D4 3D16 C6 3D17 D5 3D18 D5 3D19 G9 3D20 G9 3D26 D8 3D27 D9 3D29 C10 3D30 C10 3D31 C11 3D32 D11 3D33 D11 3D34 E10 3D35 E11 3D36 E10 3D37 E11 3D38 F11 3D39 F11 3D40 D12 3D41 E11 3D42 E12 3D43 E11 3D46 E12 3D48 E12 3D69 C4 3D70 C12 5D00 D6 5D01 B8 5D02 E8 5D05 B1 5D06 C1 5D25 D13 5D26 C15 5D27 E15 7D00-1 D3 7D00-2 D10 7D00 C4 7D06 C4 7D07 D4 7D08 D4 7D09 E4 7D10-1 C4 7D10-2 E4 7D12 C5 7D30 D11 7D31 C11 7D32 D11 7D33 D11 7D34 E11 7D35-1 C12 7D35-2 E12 7D37 C12 FD00 D7 FD01 D7 FD24 D6 FD25 D14 FD26 D14 FD54 D13 ID01 D2 ID02 G9 ID03 E3 ID04 D4 ID10 D4 ID05 C3 ID06 D4 ID07 C4 ID08 D4 ID09 D4 ID12 E5 ID13 E5 ID14 G9 ID15 E2 ID16 F3 ID17 E4 ID18 C6 ID19 D5 ID20 D1 ID21 D5 ID22 D5 ID23 E5 ID24 F3 ID26 F10 ID27 B2 ID28 E11 ID29 C2 ID30 E3 ID31 D9 ID33 E10 ID34 D11 ID35 D11 ID36 D11 ID37 E11 ID38 E11 ID39 D11 ID40 D12 ID41 E11 ID42 E12 ID43 E12 ID45 F10 ID46 F10 ID48 C13 ID49 D12 ID50 D8 ID51 E12 ID52 E12 ID53 E12 ID60 D13 ID61 D6 IDB4 C5 IDB5 D12

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

SA4 AUDIO LEFT / RIGHT



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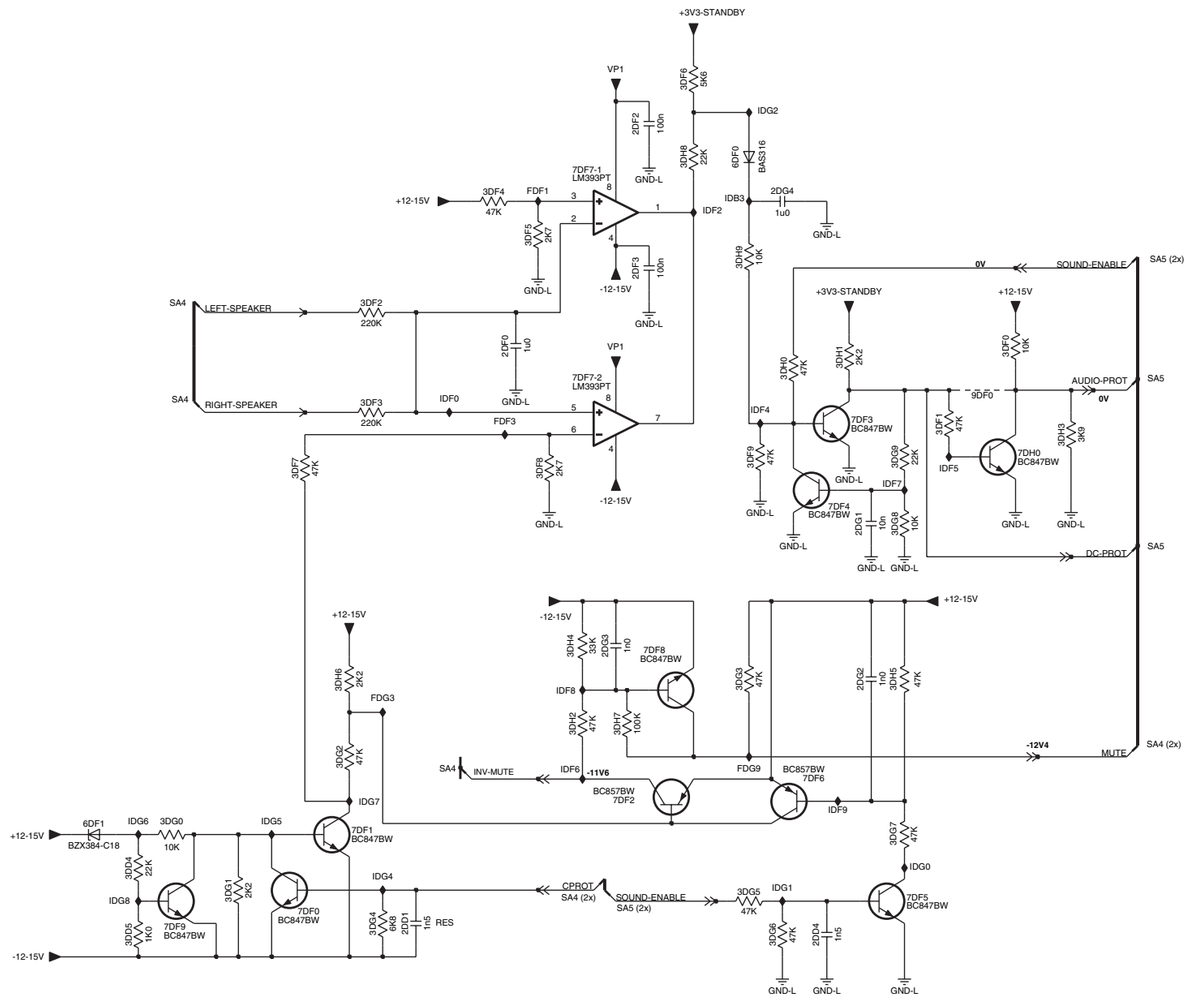
Stand-by & Audio Panel: Prot. / Mute

SA5 PROTECTION / MUTE CONTROL

SA5



3104 313 6093.5

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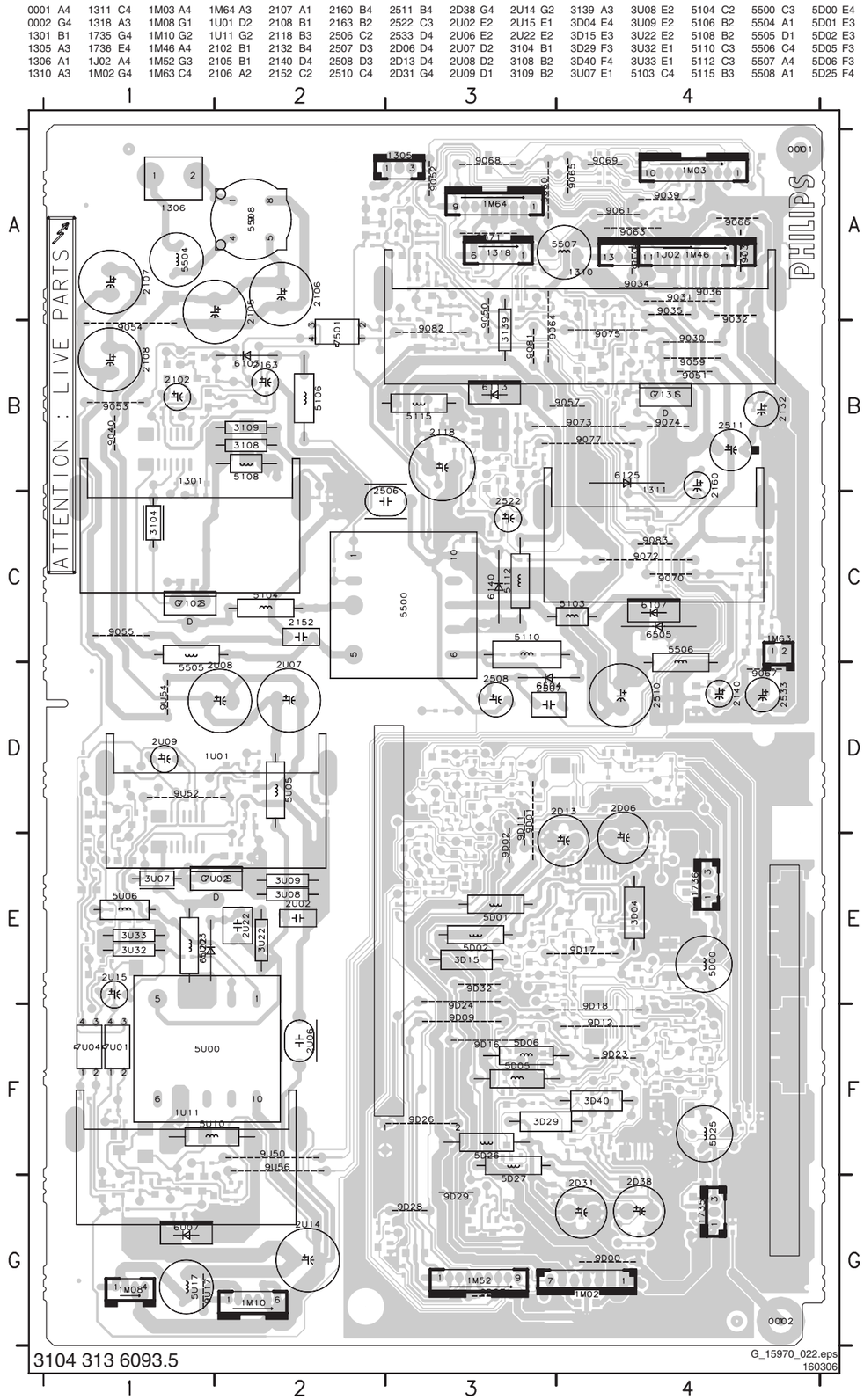
0002 G12 c004 F11
1M02 C12 c006 F11
1M52 B12
2DD1 G3
2DD4 G6
2DE0 E12
2DF0 C4
2DF2 B5
2DF3 C5
2DF4 B12
2DF6 D12
2DF9 G11
2DG1 D6
2DG2 E6
2DG3 E5
2DG4 B6
3DD0 E11
3DD1 E11
3DD2 E11
3DD4 G1
3DD5 G1
3DF0 C7
3DF1 D7
3DF2 C3
3DF3 D3
3DF4 B4
3DF5 B4
3DF6 A5
3DF7 D3
3DF8 D4
3DF9 D5
3DG0 F2
3DG1 G2
3DG2 F3
3DG3 E5
3DG4 G3
3DG5 G5
3DG6 G6
3DG7 F6
3DG8 D6
3DG9 D6
3DH0 C6
3DH1 C6
3DH2 F4
3DH3 D7
3DH4 E4
3DH5 E6
3DH6 E3
3DH7 F5
3DH8 B5
3DH9 C5
6DF0 B5
6DF1 F1
7DD0 E12
7DF0 G3
7DF1 F3
7DF2 F5
7DF3 D6
7DF4 D6
7DF5 G6
7DF6 F6
7DF7-1 B4
7DF7-2 C4
7DF8 E5
7DF9 G2
7DH0 D7
9D00 G11
9D07 E12
9D10 C11
9DF0 C7
9DF1 C11
FDF1 B4
FDF3 D4
FDG1 B11
FDG3 E3
FDG9 F5
FDH0 C11
FDH1 D11
FDH2 D11
FDH3 D11
FDH4 B11
FDH5 B11
FDH6 B11
FDH8 B11
FDH9 B11
IDB3 B5
IDE0 E11
IDE1 E11
IDE2 E12
IDF0 D4
IDF2 B5
IDF4 D6
IDF5 D7
IDF6 F4
IDF7 D6
IDF8 E4
IDF9 F6
IDG0 G7
IDG1 G6
IDG2 B6
IDG4 G3
IDG5 F2
IDG6 F2
IDG7 F3
IDG8 G1
c002 G11

Layout Stand-by & Audio Panel (Top Side)

0001 A4 1311 C4 1M03 A4 1M64 A3 2107 A1 2160 B4 2511 B4 2D38 G4 2U14 G2 3139 A3 3U08 E2 5104 C2 5500 C3 5D00 E4 5D26 F3
0002 G4 1318 A3 1M08 G1 1U01 D2 2108 B1 2163 B2 2522 C3 2U02 E2 2U15 E1 3D04 E4 3U09 E2 5106 B2 5504 A1 5D01 E3 5D27 G3
1301 B1 1735 G4 1M10 G2 1U11 G2 2118 B3 2506 C2 2533 D4 2U06 E2 2U22 E2 3D15 E3 3U22 E2 5108 B2 5505 D1 5D02 E3 5U00 F1
1305 A3 1736 E4 1M46 A4 2102 B1 2132 B4 2507 D3 2D06 D4 2U07 D2 3104 B1 3D29 F3 3U32 E1 5110 C3 5506 C4 5D05 F3 5U03 E1
1306 A1 1J02 A4 1M52 G3 2105 B1 2140 D4 2508 D3 2D13 D4 2U08 D2 3108 B2 3D40 F4 3U33 E1 5112 C3 5507 A4 5D06 F3 5U05 D2
1310 A3 1M02 G4 1M63 C4 2106 A2 2152 C2 2510 C4 2D31 G4 2U09 D1 3109 B2 3U07 E1 5103 C4 5115 B3 5508 A1 5D25 F4 5U06 E1
5U10 F2
5U17 G1
6103 B2
6107 C4
6113 B3
6125 B4
6140 C3
6504 D3
6505 C4
6U07 G1
6U22 E2
7102 C1
7131 B4
7501 B2
7U01 F1
7U02 E1
7U04 F1
9030 B4
9031 A4
9032 A4
9033 A4
9034 A4
9035 B4
9036 A4
9037 A4
9038 A4
9039 A4
9040 B1
9050 A3
9051 B4
9052 A3
9053 B1
9054 A1
9055 C1
9057 B4
9059 B4
9060 A4
9061 A4
9063 A4
9064 A4
9065 A4
9066 A4
9067 C4
9068 A3
9069 A4
9070 C4
9071 A3
9072 C4
9073 B4
9074 B4
9075 B4
9077 B4
9081 A3
9082 A3
9083 C4
9D00 G4
9D01 D3
9D02 D3
9D09 F3
9D11 D3
9D12 F4
9D16 F3
9D17 E4
9D18 E4
9D23 F4
9D24 F3
9D26 F3
9D27 G3
9D28 G3
9D29 G3
9D32 E3
9U17 G2
9U50 F2
9U52 D1
9U54 D1
9U56 G2



Layout Stand-by & Audio Panel (Overview Bottom Side)

2103 B4 2513 C1 2541 C1 2D09 E1 2D25 E1 2D37 G1 2DD1 D1 2DG2 D2 3110 B2 3128 A2 3149 B3 3502 B1 3514 B2 3524 B2 3539 A1 3D01 F2 3D13 E1 3D31 F2 6U01 E4
2109 A2 2518 C2 2544 A2 2D10 E1 2D26 F1 2D39 F1 2DD4 E2 2DG3 D2 3112 B4 3132 B1 3152 B4 3503 C1 3515 C2 3528 A1 3540 A2 3D02 F2 3D14 E2 3D32 F2 6U02 D4
2129 C2 2523 B2 2D00 F2 2D11 E1 2D27 F1 2D40 F1 2DE0 G2 2DG4 E2 3113 B2 3134 A1 3153 B1 3504 C1 3516 B2 3529 A2 3541 A2 3D05 E2 3D16 E1 3D33 F1 6U03 E4
2131 B1 2534 C1 2D01 F2 2D12 E1 2D28 F1 2D41 G1 2DF0 D1 2U05 G4 3114 B3 3135 B1 3159 C1 3506 A2 3517 C2 3530 A1 3542 A2 3D06 E1 3D17 E1 3D34 F1 6U04 D3
2141 C2 2535 A1 2D02 E1 2D14 E1 2D29 F1 2D42 E1 2DF2 D1 2U10 D4 3122 C2 3137 B2 3160 C4 3507 A2 3518 B2 3531 A1 3543 A2 3D07 E2 3D18 E1 3D35 F1 6U05 E3
2143 B2 2536 A2 2D03 F1 2D15 F1 2D30 F1 2D43 F1 2DF3 D2 2U11 D3 3123 B2 3140 B1 3161 B1 3508 A2 3519 B2 3532 A2 3544 A2 3D08 E1 3D19 F1 3D36 F1 6U08 F4
2145 B4 2537 A2 2D04 F1 2D16 F1 2D32 G2 2D89 E1 2DF4 G2 2U13 F4 3124 B2 3141 C1 3171 B1 3510 A2 3520 B2 3534 A1 3560 A2 3D09 E2 3D20 F1 3D37 F1 6U09 G4
2154 C1 2538 A1 2D05 E2 2D17 G1 2D33 G1 2D90 F1 2DF6 G1 2U37 F3 3125 B4 3142 D1 3172 A1 3511 B1 3521 B2 3535 A1 3561 A3 3D10 E2 3D26 E1 3D38 F1 6U11 D3
2503 C1 2539 C1 2D07 E1 2D20 F2 2D34 G1 2D91 F1 2DF9 G1 2U38 F4 3126 B4 3146 B3 3175 C2 3512 B1 3522 C2 3536 A1 3562 A3 3D11 E2 3D27 F1 3D39 F1 6U15 E4
2509 A2 2540 A2 2D08 E1 2D21 F2 2D35 F1 2D92 F1 2DG1 E2 3106 B3 3127 B3 3148 B3 3176 C1 3513 B1 3523 B2 3538 C1 3999 D2 3D12 E1 3D30 F2 6U41 F1 6U25 D4
3D42 F1 6U26 D4
3D43 G1 6U32 G4
3D46 E1 7100 B4
3D48 F1 7101 B4
3D69 E1 7140 C1
3D70 F1 7503 C1
3DD0 G2 7505 A2
3DD1 G2 7506 B1
3DD2 G2 7507 A2
3DD4 D2 7509 A2
3DD5 D2 7510 A2
3DF0 G2 7511 B2
3DF1 G3 7512 B2
3DF2 D1 7513 B2
3DF3 D1 7514 B2
3DF4 D2 7531 D1
3DF5 D2 7532 B1
3DF6 D2 7534 A1
3DF7 D1 7560 A3
3DF8 D1 7D00 F1
3DF9 E2 7D05 E2
3DG0 D2 7D06 E1
3DG1 D2 7D07 E1
3DG2 D2 7D08 E1
3DG3 D2 7D09 E2
3DG4 D1 7D10 E1
3DG5 E2 7D12 E1
3DG6 E2 7D30 F2
3DG7 E2 7D31 F2
3DG8 E2 7D32 F1
3DG9 E2 7D33 F1
3DH0 E2 7D34 F1
3DH1 E2 7D35 F1
3DH2 D2 7D37 F1
3DH3 G2 7DD0 G2
3DH4 D2 7DF0 D1
3DH5 D2 7DF1 D1
3DH6 D2 7DF2 D2
3DH7 D2 7DF3 E2
3DH8 E2 7DF4 E2
3DH9 E2 7DF5 E2
3U01 D3 7DF6 D2
3U02 D3 7DF7 D1
3U03 D3 7DF8 D2
3U04 D4 7DF9 D2
3U05 E3 7DH0 G3
3U06 D3 7U03 E4
3U10 D4 7U05 F4
3U11 F4 7U07 G4
3U12 G4 7U08 G3
3U13 G4 7U10 E4
3U14 F4 7U15 D4
3U15 G4 7U16 E4
3U16 F4 9002 A2
3U17 E4 9003 A2
3U18 E4 9008 A2
3U19 D4 9009 A2
3U20 E4 9048 A2
3U21 F4 9049 B2
3U23 D3 9058 A2
3U25 E4 9076 A2
3U26 E4 9078 A1
3U27 E4 9079 A1
3U28 E4 9080 C1
3U29 G4 9123 A1
3U31 G4 9124 A1
3U35 G3 9D06 D2
3U36 G3 9D07 G2
3U37 G4 9D10 E2
3U38 F4 9D13 F1
3U43 G4 9D14 F1
5105 C3 9D15 F1
5107 C3 9D19 F1
5U07 D3 9D20 E2
5U08 E4 9D21 D2
6101 A4 9D25 F1
6102 B4 9D30 F1
6105 C4 9D31 F1
6109 B2 9DF0 G3
6110 C2 9DF1 G2
6115 B4 9U55 E4
6130 B1 9U57 E4
6132 B1 9U58 D4
6133 B1
6134 B1
6144 B3
6147 B3
6148 C1
6149 C1
6503 B1
6510 A1
6513 B2
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6535 A1
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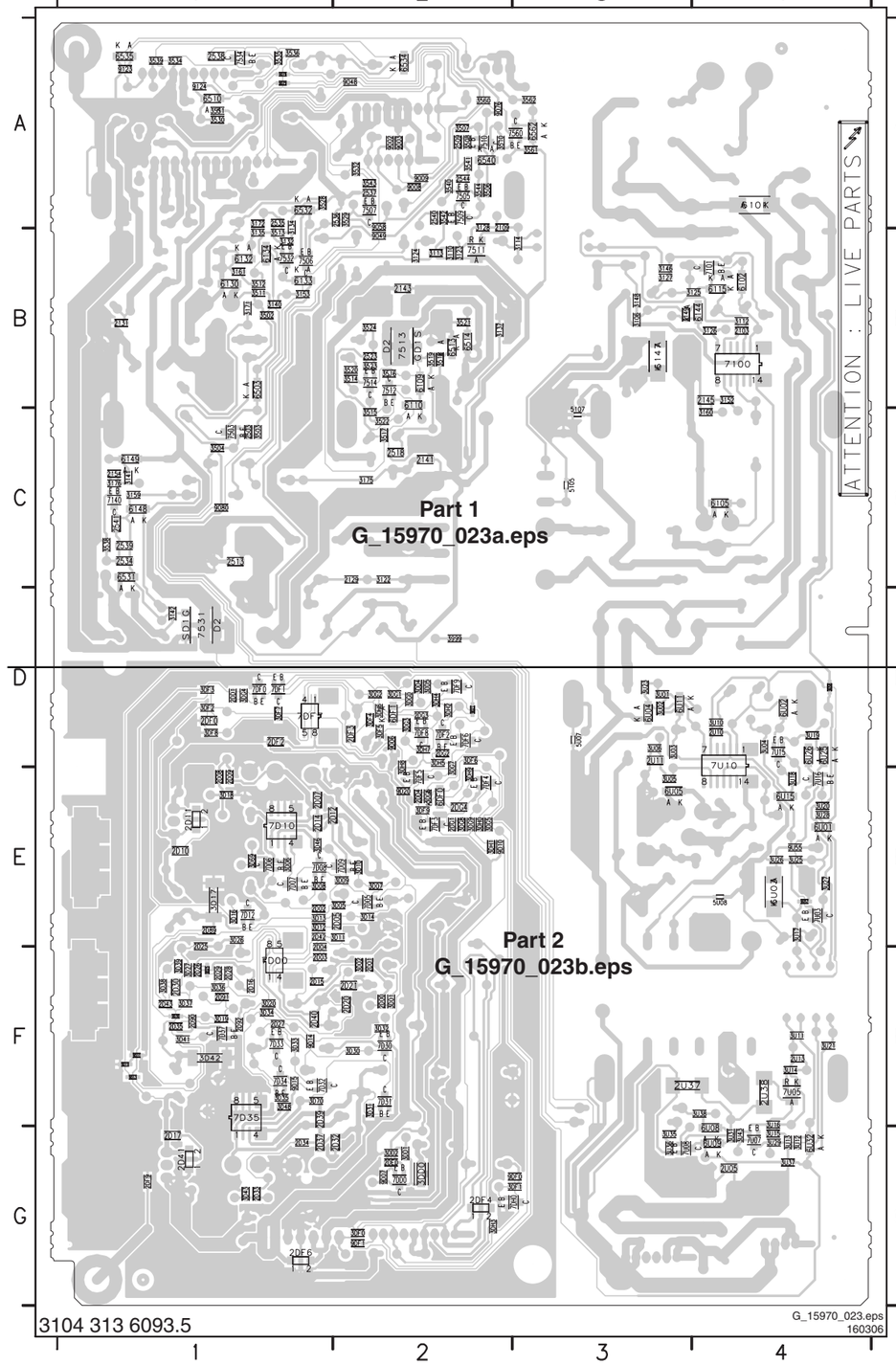
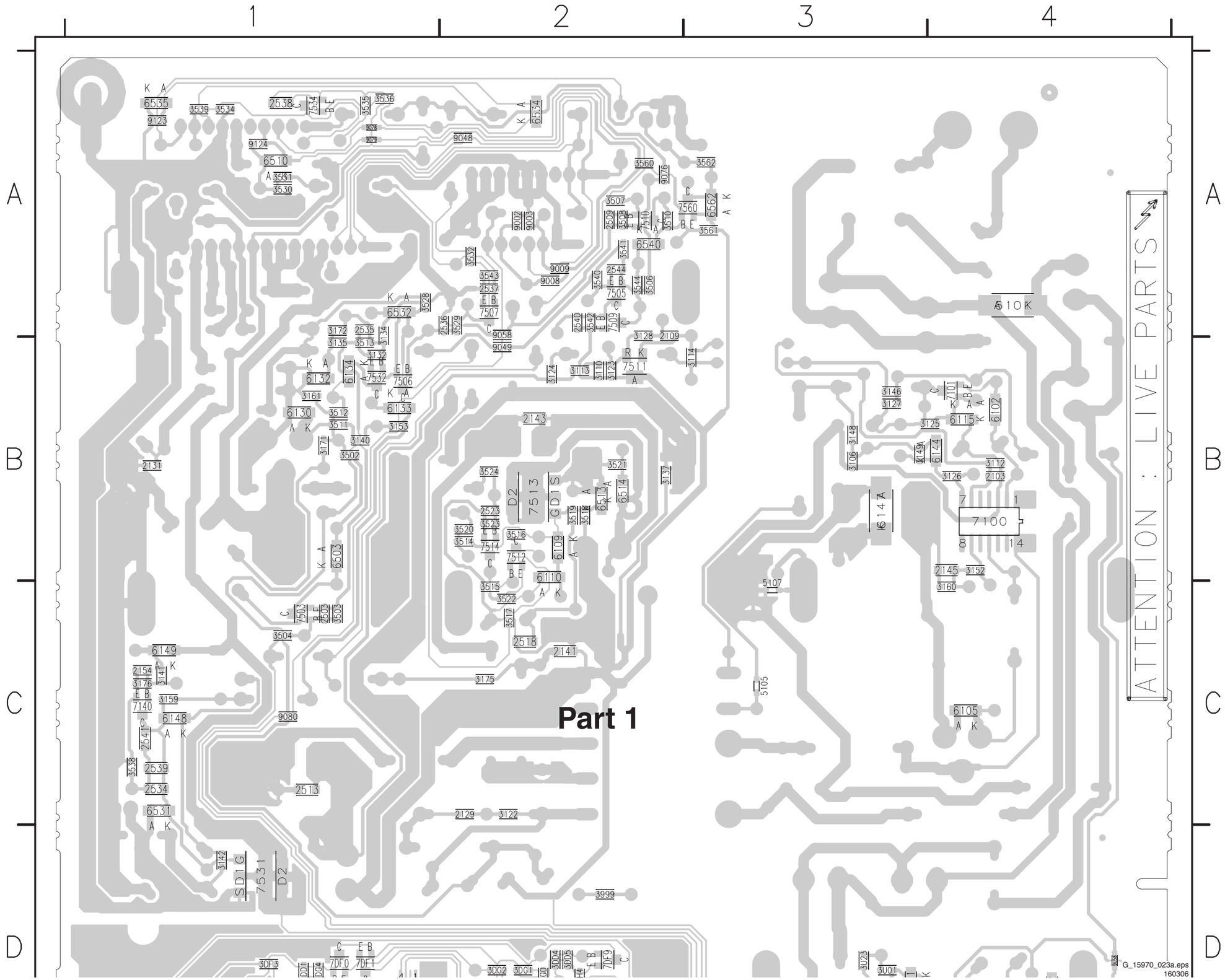
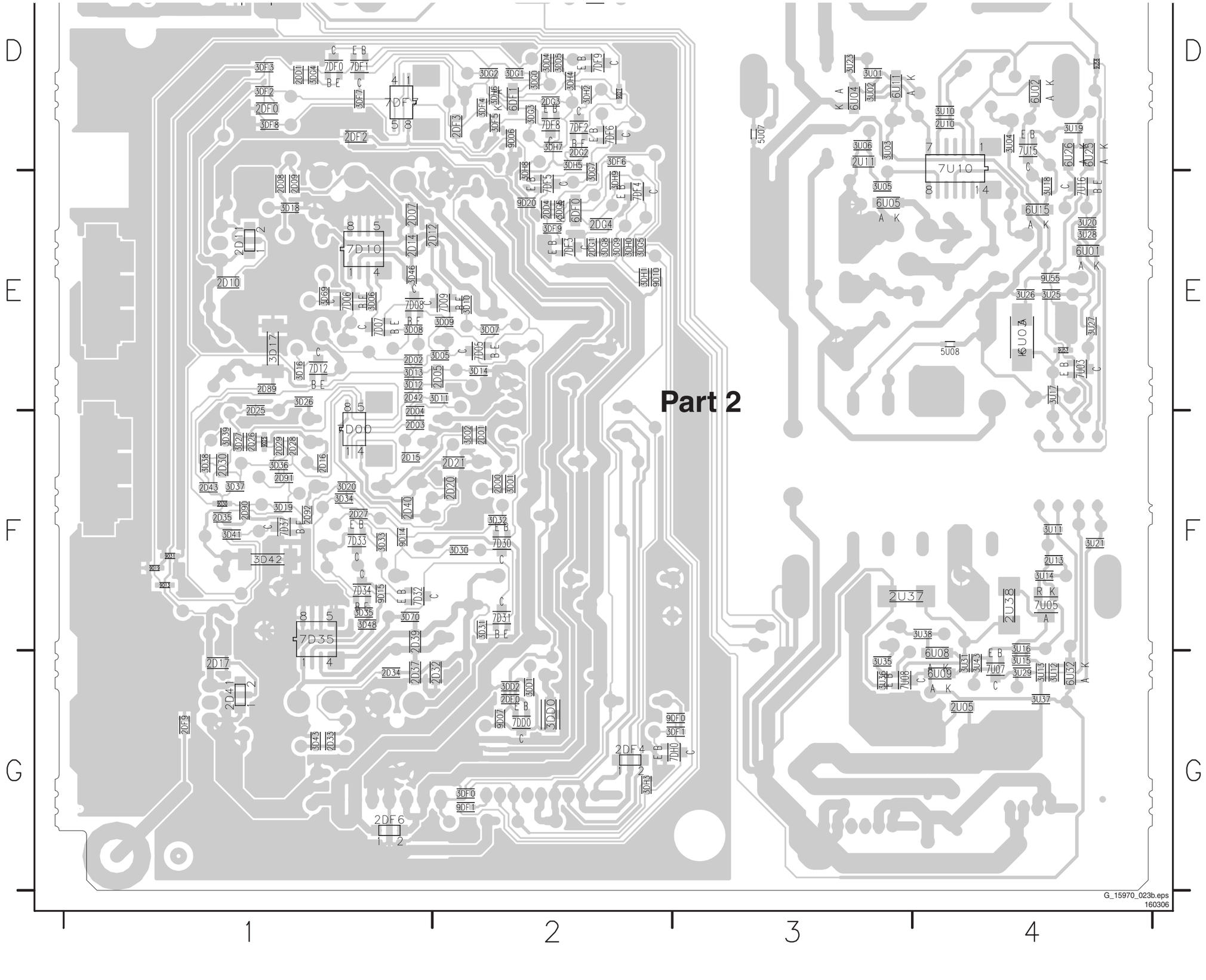
6562 A3
6DF0 E2
6DF1 D2



Layout Stand-by & Audio Panel (Part 1 Bottom Side)



Layout Stand-by & Audio Panel (Part 2 Bottom Side)



Personal Notes:

E_06532_013.eps
131004

8. Alignments

Index of this chapter:

Note: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the CURSOR UP, DOWN, LEFT or RIGHT keys of the remote control transmitter.

8.1 General Alignment Conditions

Perform all electrical adjustments under the following conditions:
- Power supply voltage (depends on region):
  - AP-NTSC: 120 V_{AC} or 230 V_{AC} / 50 Hz (± 10%).
  - AP-PAL-multi: 120 - 230 V_{AC} / 50 Hz (± 10%).
  - EU: 230 V_{AC} / 50 Hz (± 10%).
  - LATAM-NTSC: 120 - 230 V_{AC} / 50 Hz (± 10%).
  - US: 120 V_{AC} / 60 Hz (± 10%).
- Connect the set to the mains via an isolation transformer with low internal resistance.
- Allow the set to warm up for approximately 15 minutes.
- Measure voltages and waveforms in relation to correct ground (e.g. measure audio signals in relation to AUDIO_GND).
  Caution: It is not allowed to use heatsinks as ground.
- Test probe: Ri > 10 Mohm, Ci < 20 pF.
- Use an isolated trimmer/screwdriver to perform alignments.

8.1.1 Initial Settings

Press the “Menu” button on the RC. Select “TV menu”, “TV settings” and then “Picture”. Change the following initial setting in order to perform all electrical adjustments:
1. Set “Active Control” to “Off”.
2. Set “Light sensor” to “Off”.

8.1.2 Alignment Sequence

- First, set the correct options:
  - In SAM, select “Options”, and then “Option numbers”.
  - Fill in the option settings for “Group 1” and “Group 2” according to the set sticker (see also paragraph "Option Settings").
  - Press OK on the remote control **before** the cursor is moved to the left.
  - In submenu “Option numbers” select “Store” and press OK on the RC.
  - In main menu, select “Store” again and press OK on the RC.
  - Switch the set to STAND-BY.
- Warming up (>15 minutes).
- White-D alignment.

8.2 Hardware Alignments

Not applicable.

8.3 Software Alignments

Put the set in SAM mode (see Chapter 5 "Service Modes, Error Codes and Fault Finding"). The SAM menu will now appear on the screen. Select ALIGNMENTS and go to one of the sub menus. The alignments are explained below.

Notes:
- All changes must be stored manually.
- If an empty NVM (permanent memory) is detected, all settings are set to pre-programmed default values.

With the software alignments of the Service Alignment Mode (SAM), “Tuner AGC”, “Tuner IF PLL Offset” and the “Whitepoint” settings can be aligned.

To store the data:
- Press OK on the RC **before** the cursor is moved to the left.
- In main menu select “Store” and press OK on the RC.
- Press MENU on the RC to switch back to the main menu.
- Switch the set to STAND-BY mode.

For the next alignments, supply the following test signals via a video generator to the RF input:
- **EU/AP-PAL** models: a PAL B/G TV-signal with a signal strength of at least 1 mV and a frequency of 475.25 MHz
- **US/AP-NTSC** models: an NTSC M/N TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).
- **LATAM** models: an NTSC M TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).

8.3.1 Adjacent channel sound trap (40.4 MHz)

Purpose: to avoid sound of adjacent channel in picture.

This alignment can only be executed in sets equipped with the hybrid TD1316AF tuner (use RF sweep generator, spectrum analyser and active probe):
- Apply sweep generator to antenna. Tune to any frequency, e.g. 154.25 MHz. Sweep from appr. 151.25 MHz to 154.25 MHz. Level must be low (e.g. 45 dBµV) in order to avoid AGC effect.
- Sweep from appr. 151.25 MHz to 154.25 MHz. Level must be low (e.g. 45 dBµV) in order to avoid AGC effect.
- Connect active probe of spectrum analyser to test point AC05.
- Turn the core of coil 5C70 until notch frequency is at 40.75 MHz.

8.3.2 Tuner AGC

Purpose: To keep the tuner output signal constant as the input signal amplitude varies.

This chassis comes with two tuner types: the UV1318S for the analogue sets and the TD1316AF for the hybrid sets. For further details refer to chapter 9 “Circuit descriptions, Abbreviation List, and Data Sheets”. For the digital tuner TD1316AF, no AGC alignment is necessary, as the AGC alignment is done automatically (standard value: “32”), even during analogue reception. The analogue tuner UV1318S however needs to be aligned as follows (use spectrum analyser and RF generator):
- Warm up set for a short period.
- Tune set to 203.25 MHz.
- Apply unmodulated carrier of 203.25 MHz (70 dBµV) to antenna input.
- Measure IF-output of the tuner (pin 11) with active probe and spectrum analyser.
- Adjust AGC (via SAM menu), until measured level is less or equal to 103 dBµV (6-bit register, typical value is 42 dec).
- Store settings and quit SAM.

8.3.3 IF PLL Offset

The IF PLL Offset value needs to be realigned in case the MPIF and/or the NVM have been replaced. This is not necessary in case only the tuner has been replaced. Default values are:
- For PAL B/G: 40
- For SECAM L: 32

In case the result is not satisfying (distortion in sound and/or discolouration in left and right part of the picture), use the following method to align the IF PLL Offset value:
- Switch set “off”.
- Disconnect speakers and connect a resistor of 1 kΩ instead.
- Connect AC voltmeter at resistor.
- Switch set on.
- Put “Volume” at maximum.
- Align PLL until voltage is at minimum.

In case the minimum value on the AC voltmeter is found in a range of IF PLL Offset values, the value should be taken that is in the middle of this range.

8.3.4 White Point

- Set “Active control” to “Off” as earlier described.
- Choose “TV menu”, “TV Settings” and then “Picture” and put:
  - “Dynamic contrast” to “Off”.
  - “Colour enhancement” to “Off”.
  - “Light sensor” to “Off”.
  - “Clear LCD” to “On” where applicable.
  - “Colour” to "0".
  - “Contrast” to "100".
- Go to the SAM and select “Alignments”-> “Whitepoint”.

White point alignment:
- Use a 100% white screen as input signal and set the following values:
  - “Colour temperature”: "Normal".
  - All “Whitepoint” values to: "127".
  - “Red BL offset” and “Green BL offset” values to “8”.

In case you have a colour analyser:
- Measure with a calibrated (phosphor- independent) colour analyser in the centre of the screen. Consequently, the measurement needs to be done in a dark environment.
- Adjust the correct x,y coordinates (while holding one of the White point registers R, G or B on 127) by means of decreasing the value of one or two other white points to the correct x,y coordinates (see table "White D alignment values"). Tolerance: dx: ± 0.004, dy: ± 0.004.
- Repeat this step for the other colour Temperatures that need to be aligned.
- When finished press OK on the RC and then press STORE (in the SAM root menu) to store the aligned values to the NVM.
- Restore the initial picture settings after the alignments.

If you do not have a colour analyser, you can use the default values. This is the next best solution. The default values are average values coming from production (statistics).
- Select a COLOUR TEMPERATURE (e.g. COOL, NORMAL, or WARM).
- Set the RED, GREEN and BLUE default values according to the values in the "Tint settings" table.
- When finished press OK on the RC, then press STORE (in the SAM root menu) to store the aligned values to the NVM.
- Restore the initial picture settings after the alignments.

Table 8-1 Tint settings 32” LCD version

Colour Temp.	R	G	B
Cool	104	127	117
Normal	115	127	109
Warm	127	120	80

Table 8-2 Tint settings 37” LCD version

Colour Temp.	R	G	B
Cool	104	126	127
Normal	116	127	118
Warm	127	118	87

Table 8-3 Tint settings 42” LCD version

Colour Temp.	R	G	B
Cool	127	120	122
Normal	127	112	105
Warm	127	95	68

Note: These values were not available at the time of writing, therefore they come from an early production sample (for indication only). As soon as the production data become available, a Service Info or Service Manual update will be issued via the appropriate channels.

8.4 Option Settings

8.4.1 Introduction

The microprocessor communicates with a large number of I^2C ICs in the set. To ensure good communication and to make digital diagnosis possible, the microprocessor has to know which ICs to address. The presence / absence of these specific ICs (or functions) is made known by the option codes.

Notes:
- After changing the option(s), save them by pressing the OK button on the RC **before** the cursor is moved to the left, select STORE in the SAM root menu and press OK on the RC.
- The new option setting is only active after the TV is switched "off" and "on" again with the Mains switch (the NVM is then read again).

8.4.2 Dealer Options

For dealer options, in SAM select “Dealer options” and then “Personal options”.

Table 8-4 Dealer options

Menu item	Subjects	Options	Description
Personal Options	Virgin Mode	On	TV starts up (once) with a language selection menu after the Mains switch is turned "on" for the first time (virgin mode)
		Off	TV does not start up (once) with a language selection menu after the Mains switch is turned "on" for the first time (virgin mode)
	Autostore Mode	None	Determines where the set distracts the information from for the autostore functionality
		PDC/VPS	
		TXT page	
		PDC/VPS/TXT	

8.4.3 (Service) Options

Select the sub menu's to set the initialization codes (options) of the set via text menus.

Table 8-5 Service options

Menu-item	Subjects	Options	Description
PIP/DS	Dual Screen	None	no DS
		One tuner dual screen	one tuner DS
		Two tuner dual screen	two tuner DS
Data	EPG	-	Electronic Program Guide
Display	Screen	“Value”	Used screen size, type, and resolution
	Clear LCD	On / Off	Feature present / not present
	Dimming Backlight	On / Off	Feature present / not present
Video Repro	Picture Processing	Spider	Feature present
	Combfilter	None / 2D / 3D	
	Ambient Light	Off / Mono / Stereo/ Triple / Quad	Inverter not present / one inverter / two inverters / three inverters / four inverters
	Pacific 3	On	Feature present
	MOP	Off / On	Feature present / not present
	Light sensor	Off / On	Sensor active / not active
Source Selection	EXT1 type	CVBS RGB	
	EXT2 type	CVBS Y/C RGB P50	
	EXT3 type	YPbPr	
	EXT4 type	None	
	HDMI 1	None	No HDMI
		With analogue audio	DVI
		Without analogue audio	HDMI
	HDMI 2	None	No HDMI
		With analogue audio	DVI
		Without analogue audio	HDMI
	USB version	2.0 + CR	USB 2.0 in cardreader panel
	Ethernet	Off / On	Connector not present / present
	VGA	On	
	S/PDIF inputs	1 connector	1 connector present (in)

Menu-item	Subjects	Options	Description
Audio Repro	Acoustic System (Cabinet design, used for setting dynamic audio parameters).	None	
		Entry ME5 5W	
		Entry ME5 15W	
		(Soft) Wrap	
		Top	
		Entry+	
		Eco ME5 5W	
		Eco ME5 15W	
		Eco ME6	
		Top-A 2K6	
		ME5P 2K6	
		Step Top-B EUR AP 2K6 32	
		Step Top-B EUR AP 2K6 37+	
		Step Top-B Open 2K6	
		MEG 2K6	
		51 WMAG	
		51 PHIL	
		60 PHIL	
		MEG ECO Slim	
	Centre mode support	Off	Feature present / not present
	Inverted Class D amplifier	Yes / No	Right audio channel (coming from the PNX2105) inverted / not inverted. Only inverted ('Yes') in sets who use the 2k6 audio panel.
Miscellaneous	Region	Europe / AP-PAL-MULTI	
	ATSC / DVB-T	On / Off	
	DVB-T installation	Off / Country dependent / On	
	Alternative tuner	Philips	Tuner brand
	Tuner type	UV1318 / TD 1316	Tuner type
	AGC amplifier	Other / Sanyo	
	Hotel mode	Off	
	Video playback	On	
	Connected planet	On / Off	
Opt. no.	Group 1		xxxxx xxxxx xxxxx xxxxx (see set sticker)
	Group 2		xxxxx xxxxx xxxxx xxxxx (see set sticker)
	Store	Store	

8.4.4 Opt. No. (Option numbers)

Select this sub menu to set all options at once (expressed in two long strings of numbers).
An option number (or "option byte") represents a number of different options. When you change these numbers directly, you can set all options very quickly. All options are controlled via eight option numbers.
When the NVM is replaced, all options will require resetting. To be certain that the factory settings are reproduced exactly, you must set both option number lines. You can find the correct option numbers on a sticker inside the TV set.

Example: The options sticker gives the following option numbers:

- 04368 00005 01066 08707
- 00000 00032 00512 00000

The first line (group 1) indicates hardware options 1 to 4, the second line (group 2) indicates software options 5 to 8.
Every 5-digit number represents 16 bits (so the maximum value will be 65536 if all options are set).

When all the correct options are set, the sum of the decimal values of each Option Byte (OB) will give the option number. See next table for the option overview.

Important: after having edited the option numbers as described above, you **must** press OK on the remote control **before** the cursor is moved to the left!

Table 8-6 Option code overview

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
1	0 (1)	Video Repro	Picture Processing	0= No Spider, 1= Spider	Spider availability, influences, digital options.
	1 (2)				
	2 (4)				
	3 (8)		Comb Filter	0= None, 8= 2D Comb (Columbus without DRAM), 16= 3D Comb (Columbus with DRAM)	
	4 (16)				
	5 (32)		Ambient Light	0= None, 32=Ambi-light Mono, 64= Ambi-light Stereo, 96 = Ambi-light Triple, 128 = Ambi-light Quattro	
	6 (64)				
	7 (128)				
	8 (256)		Dual Screen	0= None, 256= One Tuner DS, 512= Two Tuner DS	
	9 (512)				
	10 (1024)		MOP	0= Off, 1024= On	Matrix Output Processor.
	11 (2048)		JOP	0= Off, 2048= On	Jaguar Output Processor.
	12 (4096)		POD	0= Off, 4096= On	
	13 (8192)	n.a.			
	14 (16384)				
	15 (32768)				
2	0 (1)	Cabinet Type	Cabinet Type	0= None, 1= Entry_ ME5_5W, 2= Entry_ME5_15W, 3= (Soft)Wrap, 4= Top, 5= Entry+, 6= ME5_5W Eco, 7= ME5 15W Eco, 8= ME6 Eco, 9= TopA 2K6, 10= ME5P 2K6, 11= TopBStep32Box 2K6, 12= TopBStep37PlusBox 2K6, 13= TopBStepOpen 2K6, 14= ME6 2K6, 15= 51WMAG, 16= 51PHIL, 17= 60PHIL, 18 = MEG ECO Slim, 19= Others	Cabinet design, used for setting dynamic audio parameters.
	1 (2)				
	2 (4)				
	3 (8)				
	4 (16)				
	5 (32)	n.a.			
	6 (64)				
	7 (128)				
	8 (256)	Sound Repro	Inverted Class D	0= Not Inverted, 256= Inverted	
	9 (512)		Subwoofer Internal	0= Off, 512= On	
	10 (1024)	Centre Mode Support	Centre Mode Support	0= Not Supported, 1024= Supported	
	11 (2048)	n.a.			
	12 (4096)				
	13 (8192)				
	14 (16384)				
	15 (32768)				
3	0 (1)	Source Select	HDMI1	0= None (no HDMI), 1= With analogue audio (DVI), 2= Without analogue audio (HDMI)	read-only
	1 (2)				
	2 (4)		HDMI2	0= None(no HDMI), 4= With analogue audio (DVI), 8= Without analogue audio (HDMI)	read-only
	3 (8)				
	4 (16)		Video Playback	0= Off, 16= On	
	5 (32)		USB Version	0= None, 32= USB 1.1, 64= USB 2.0 + Card reader	USB support.
	6 (64)				
	7 (128)		IEEE1394	0= Not Present, 128= Present	
	8 (256)		Ethernet	0= LAN not present, 256= LAN present	
	9 (512)		RRT	0= Off, 512= On	Regional Rating Table (RRT)
	10 (1024)		S/PDIF Inputs	0= None, 1024= 1 Connector, 2048= 2 Connectors	
	11 (2048)				
	12 (4096)		VGA	0= Off, 1= On	
	13 (8192)		n.a.		
	14 (16384)				
	15 (32768)				
4	0 (1)	Region	Region	0= EU, 1= AP-P, 2= AP-N, 3= US, 4= Latam	
	1 (2)				
	2 (4)				
	3 (8)	Interconnect	China IF	0= Off, 8= On	
	4 (16)		Alternative Tuner	0= Philips, 16= Alps	Tuner make.
	5 (32)		Tuner Type	0= TD1336s (B-Chassis US), 32= TD1331(J-Chassis US), 64= UV1318 (analogueue EU), 96= TD1316 (Hybrid EU)	Tuner type (B-chassis US is e.g "BP2.3U").
	6 (64)				
	7 (128)	Amplifier Type	Amplifier Type	0= NEC, 128= Sanyo	

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
	8 (256)	Source select	AV1	0= CVBS/RGB, 256= CVBS/YC/YPbPr/HV/LR, 512= CVBS/YC/LR, 768= CVBS/YPbPr/LR	Input type.
	9 (512)				
	10 (1024)		AV2	0= CVBS/YC/RGB/P50, 1024= CVBS/YC/LR, 2048= CVBS/YPbPr/LR, 3072= CVBS/YC/YPbPr/LR	Input type.
	11 (2048)				
	12 (4096)		n.a.		
	13 (8192)		n.a.		
	14 (16384)		AV4	0= Not Available, 16384= YPbPr, 32768= YPbPr/LR	Input type.
	15 (32768)				
5	0 (1)	Display	Screen	see Table “Display code overview” in Chapter “Service Modes” for the values	Screen size, type, and resolution.
	1 (2)				
	2 (4)				
	3 (8)				
	4 (16)				
	5 (32)				
	6 (64)				
	7 (128)				
	8 (256)		Light sensor	0= Off, 256= On	
	9 (512)		Contrast Reduction	0= Off, 512= On	
	10 (1024)		Dimming Backlight	0= Off, 1024= On	
	11 (2048)		Clear LCD	0= Off, 2048= On	
	12 (4096)	AV3Union	Europe & AP	0= CVBS, 4096= YPbPr, 8192= YPbPr/LR, 12288= YPbPr/LR/HV	
	13 (8192)				
	14 (16384)		US	0= YPbPr, 16384= CVBS/YC/LR	
	15 (32768)	Logo	Logo	0= Off, 32768= On (default)	
6	0 (1)	Miscellaneous	n.a.		
	1 (2)		n.a.		
	2 (4)		n.a.		
	3 (8)		n.a.		
	4 (16)		n.a.		
	5 (32)		n.a.		
	6 (64)		Proximity Sensor	0= Off, 64= On	
	7 (128)		n.a.		
	8 (256)		DVB-T installation	0= Off, 256= Country dependent, 512= On	
	9 (512)				
	10 (1024)		n.a.		
	11 (2048)		n.a.		
	12 (4096)		n.a.		
	13 (8192)		n.a.		
	14 (16384)		n.a.		
	15 (32768)		n.a.		
7	0 (1)	Personal	Self Learning TV	0= Off, 1= On	
	1 (2)		Auto Store Mode	0= None, 2= PDC/VPS, 4= TXT Page, 6= PDC/VPS/TXT Page	Fixed to: "None" in the AP-N and US versions.
	2 (4)				
	3 (8)		2CS Korea	0= Off, 8= On, 16= Auto	
	4 (16)				
	5 (32)		Picture Mute	0= Off, 32= On	
	6 (64)		n.a.		
	7 (128)		Virgin Mode	0= Off, 128= On	
	8 (256)	Hotel Mode		0= Off, 256= On	
	9 (512)	Content Browser		0= Not Present, 512= Present	
	10 (1024)	Connected Planet		0= Off, 1024= Full Connected Planet + logo support	
	11 (2048)				
	12 (4096)	ATSC/DVB-T		0= Off, 4096= On	
	13 (8192)	IR Blaster		0= Off, 8192= On	
	14 (16384)	EPG		0= Off, 16384= On	
	15 (32768)	TV Guide USA (Gemstar)		0= Off, 32768= On	
8	0 (1)	n.a.	n.a.		

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
	1 (2)	n.a.	n.a.		
	2 (4)	n.a.	n.a.		
	3 (8)	n.a.	n.a.		
	4 (16)	n.a.	n.a.		
	5 (32)	n.a.	n.a.		
	6 (64)	n.a.	n.a.		
	7 (128)	n.a.	n.a.		
	8 (256)	n.a.	n.a.		
	9 (512)	n.a.	n.a.		
	10 (1024)	n.a.	n.a.		
	11 (2048)	n.a.	n.a.		
	12 (4096)	n.a.	n.a.		
	13 (8192)	n.a.	n.a.		
	14 (16384)	n.a.	n.a.		
	15 (32768)	n.a.	n.a.		

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

Notes:

- Only **new** circuits (circuits that are not published recently) are described.
- Figures can deviate slightly from the actual situation, due to different set executions.
- For a good understanding of the following circuit descriptions, please use the wiring, block (chapter 6) and circuit diagrams (chapter 7). Where necessary, you will find a separate drawing for clarification.

9.1 Introduction

This chassis (development name “Jaguar “) is: The move from the analogue world to the digital world. W.o.w. from signal processing via "hardware circuits" to signal processing via "software algorithms". This means: no software = no picture and sound!
Some key components are:

- Common Interface (CI) circuitry (only for digital sets).
- MPIF (PNX3000).
- AVIP/COLUMBUS (PNX2015).
- SPIDER (T6TE0TBG).
- VIPER 2 (PNX8550).
- FPGA (EPLD or MOP).
- PACIFIC 3 (T6TF4HFG-0002).

9.1.1 Features

The main features for this chassis are:

- Fit for both analogue and digital signal processing, this by converting analogue signals into digital transport streams and allowing seamless zapping between all possible signal sources. This makes the chassis applicable for e.g. receiving DVB-T in an integrated product form.
- AmbiLight: a unique technology that, in real-time, analyses incoming television signals and produces background lighting that matches the images displayed on the screen.
- The internal digital processing allows new "Multi-Media" applications such as Content Browser, Memory Card Slot, Local Area Network support and all kinds of streaming applications.
- The chassis can be upgraded in the future with internal functionality such as Personal Video Recording, DVD/RW, MPEG playback.

The Pacific 3 provides Pixel Plus in all models. This ensures additional sharpening, and contrast and colour enhancements to the picture.

9.1.2 Jaguar Architecture Overview

For details about the chassis block diagrams refer to chapter “Block diagrams, Test Point Overview, and Waveforms”. An overview of the Jaguar architecture can be found in figure “Architecture of Full Jaguar with Spider”.

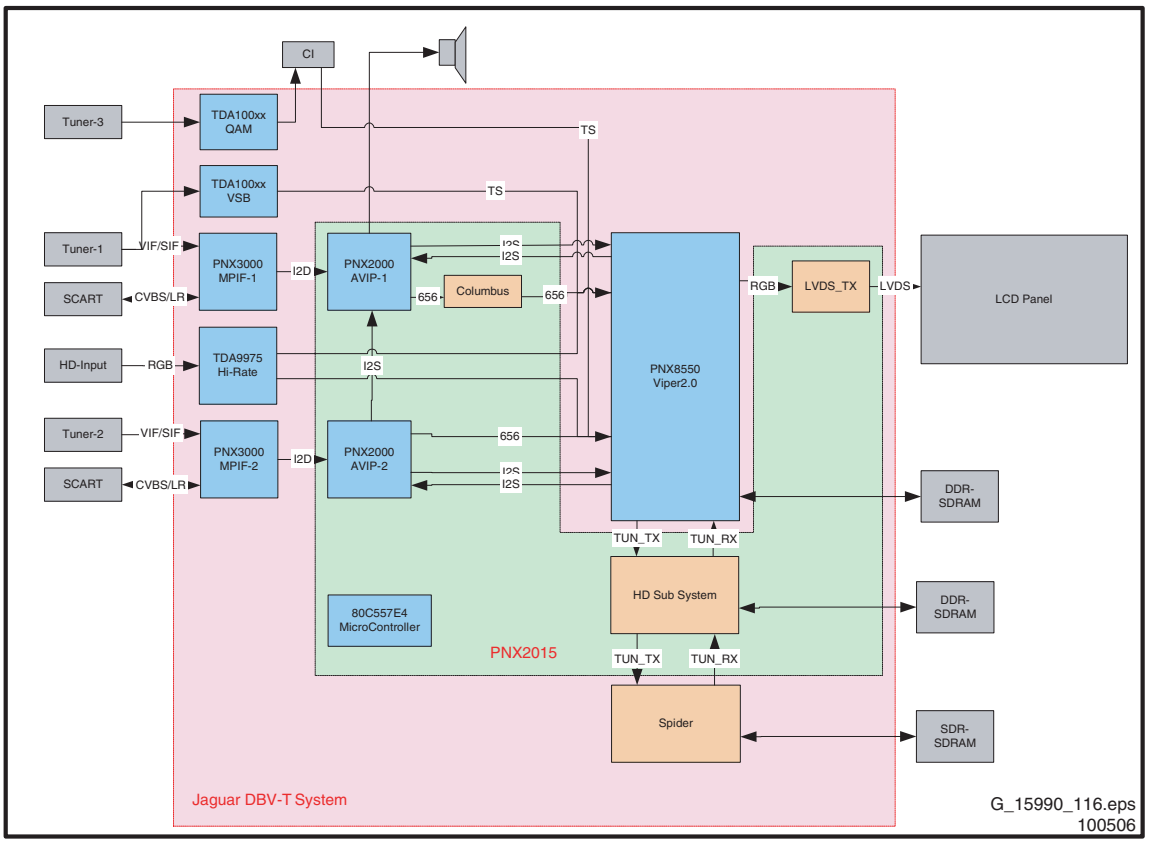


Figure 9-1 Architecture of Full Jaguar with Spider

Tuner diversity
The SSB can be equipped with two tuners: the main tuner TD1316AF and the sub tuner UV1318ST. The main tuner can receive digital and analogue signals, whereas the sub tuner can only receive analogue signals. Some sets are only equipped with an analogue tuner. Refer to chapter 9.3 “Front-End” for details.

Analogue Reception
The TV receives multimedia information by tuning to one of many 6 MHz input channels available via a cable connection. When the input channel is an analogue channel, the signal is processed via the PAL/SECAM decoder and the VBI data decoder.

Digital Reception
The CI module consists of the following functional blocks: Conditional Access (Module (CAM), Out of Band part, and buffering. These blocks are interfacing with the DVB-T In Band (IB) channel decoder and Out of Band (OOB) channel decoder. The interface is connected to the VIPER. Also the Common Interface outgoing Transport Stream (TS) is routed to the VIPER.

The TV receives multimedia information by tuning to one of many 6 MHz input channels available via a cable connection. When the input channel is a digital channel, it is processed via the QAM demodulator and then passed to the Common Interface device (CI) where secure and scrambled information is processed. Non-scrambled information is passed through the CAM to the MPEG-2 Transport Demultiplexer. When the CAM is not inserted, the output of the QAM demodulator is routed directly to the MPEG-2 Transport Demultiplexer. The multi-media processor (VIPER) handles the synchronization and display of audio-visual material.

The OpenCable Host Device also receives control information and other data by tuning to an Out-Of-Band (OOB) Forward Data Channel (FDC) channel. The terminal will remain tuned to the OOB Forward Data Channel (own tuner) to continuously receive information. This information is passed to the CAM for processing, and relevant information is passed back to the TV.

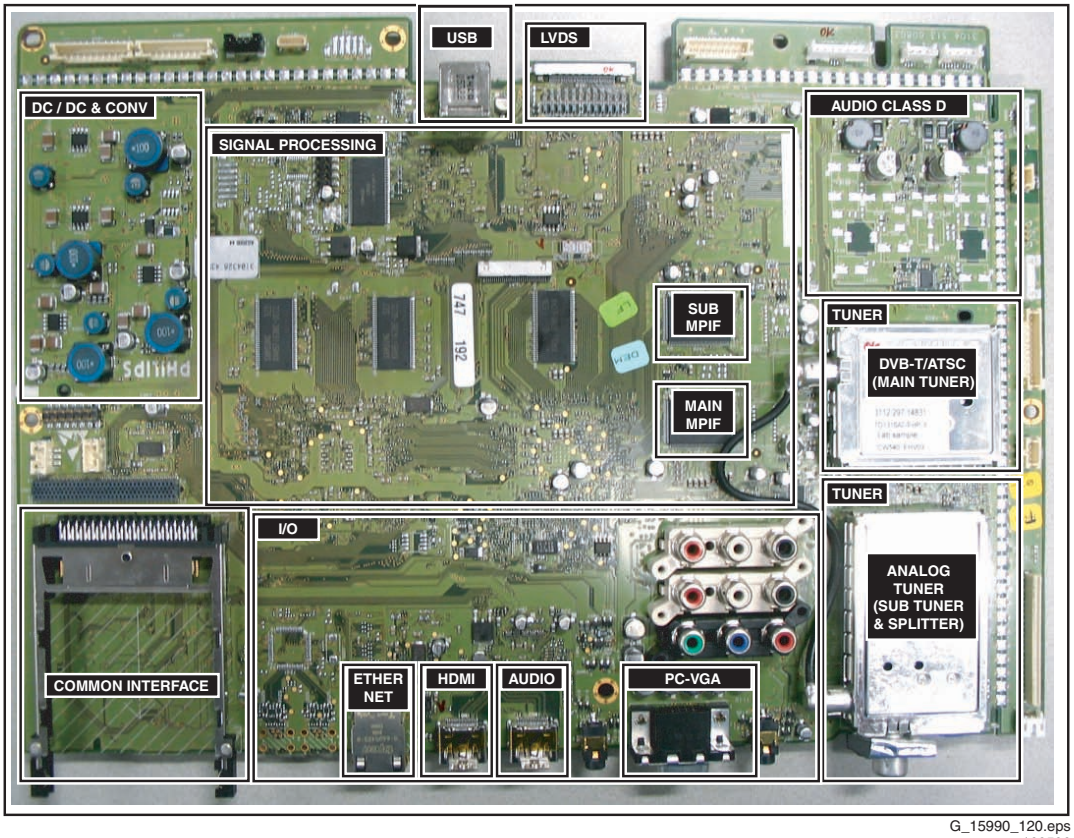
Signal Processing
The AVIP together with the MPIF device is used to perform the input decoding of a single stream of analogue audio and video broadcast signals. In addition, the AVIP is used for decoding and presentation of audio output streams. The main data connection between MPIF and AVIP is done via an I^2D bus. The AVIP converts the incoming video data to ITU-656 format for communication to the VIPER IC. The audio data is transferred between the AVIP and VIPER using I^2S.

The AVIP IC is controlled by the VIPER via the I^2C bus.

The key part in the system, the VIPER, performs almost all key features, like video quality enhancement, motion compensation, picture-in-picture processing, and others. It is a completely digital IC with a TriMedia DSP (Digital Signal Processor) core and a MIPS microcontroller core. The DSP and some additional cores are used to do the video feature processing and some auxiliary sound feature processing. The MIPS microcontroller core is used for all internal and external controlling tasks including a system wide I^2C bus.

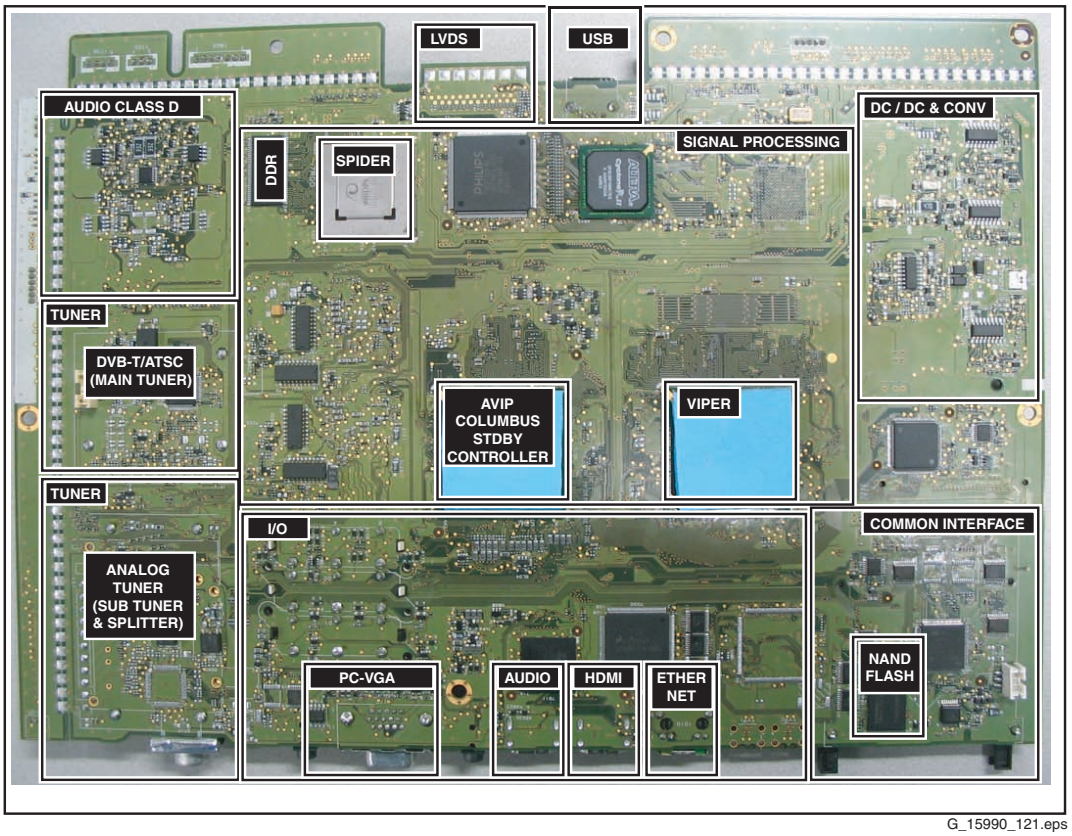
The VIPER provides a primary digital (YUV or RGB) output to the Pacific 3, which on his turn processes the data to the LVDS transmitter. For models with the AmbiLight feature, an FPGA is connected between VIPER output and LVDS Transmitter input. This FPGA (or EPLD or MOP) is used for the AmbiLight processing and some picture enhancements.

9.1.3 SSB Cell Layout



G_15990_120.eps
100506

Figure 9-2 SSB top view



G_15990_121.eps
100506

Figure 9-3 SSB bottom view

9.2 LCD Power Supply

9.2.1 Introduction

For a general description of the LCD Power Supply Unit (all displays) see the BL2.xU Service Manual.

For the 32" LCD set the main differences with this previous chassis are:

- Supply Unit delivers 24 V and 295 V supply for display. Layout, trafo, diodes and elco's have changed.
- 12 V for Top AmbiLight (if present).
- +/- 12 V supply for audio class D amplifier, except for US sets, where the supply voltage for audio class D amplifier is the same as in BL2.xU chassis (+/- 18 V).
- Mains overvoltage protection circuit, situated on MF supply panel, is latched to stop the supply. After that, a 12 V drop causes a software protection.
- The 24 V supply is separately stabilized with a MOSFET. The 295 V supply is stabilized on the 12 V supply. There is a mutual influence of less than 5 %.
- Extended display connectivity.

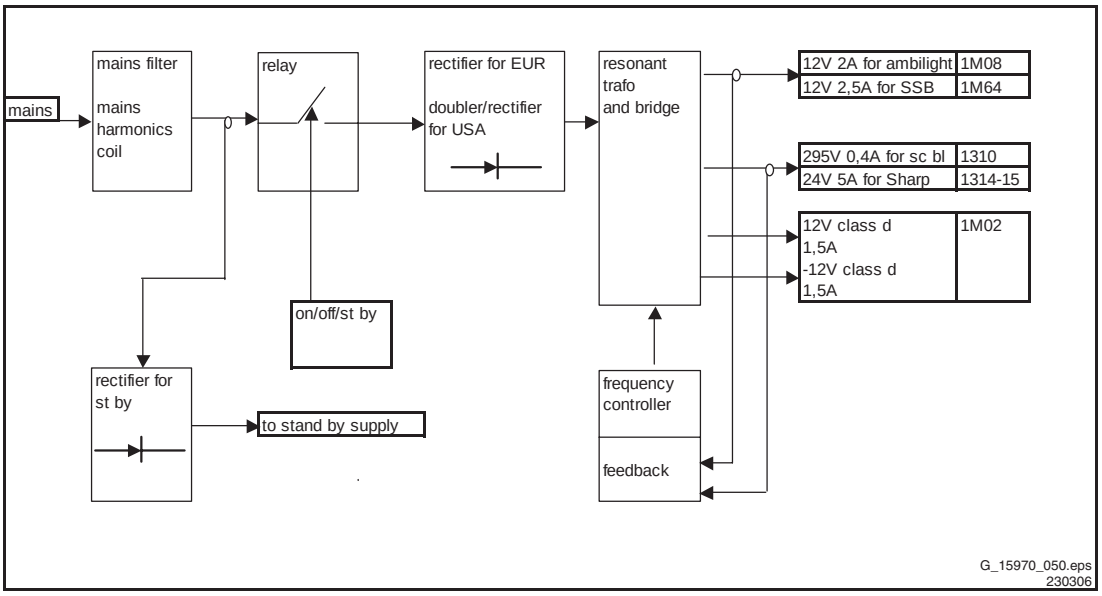


Figure 9-4 Block diagram LCD Power Supply 32"

For the 37" LCD set the main differences with the BL2.xU chassis are:

- Supply Unit delivers only 24 V for display and 12 V for Top AmbiLight (if present). No power supply for SSB and audio panel. Changed architecture. Separate platform and display supply but merged on the same board for cost reasons.
- On BL2.xU chassis the correct working of the 12 V supply was sensed on the SSB, whereas in this chassis a so-called Power-Good line indicates the correct functioning of the 12 V and 24 V supply. This is polled by the UPROC (PNX).
- Mains overvoltage protection shuts down the supply: Power-Good goes low.
- Supply is stabilized on the 24 V supply. The 12 V supply fluctuates with the load on the 24 V supply however this is not critical.
- Extended display connectivity.

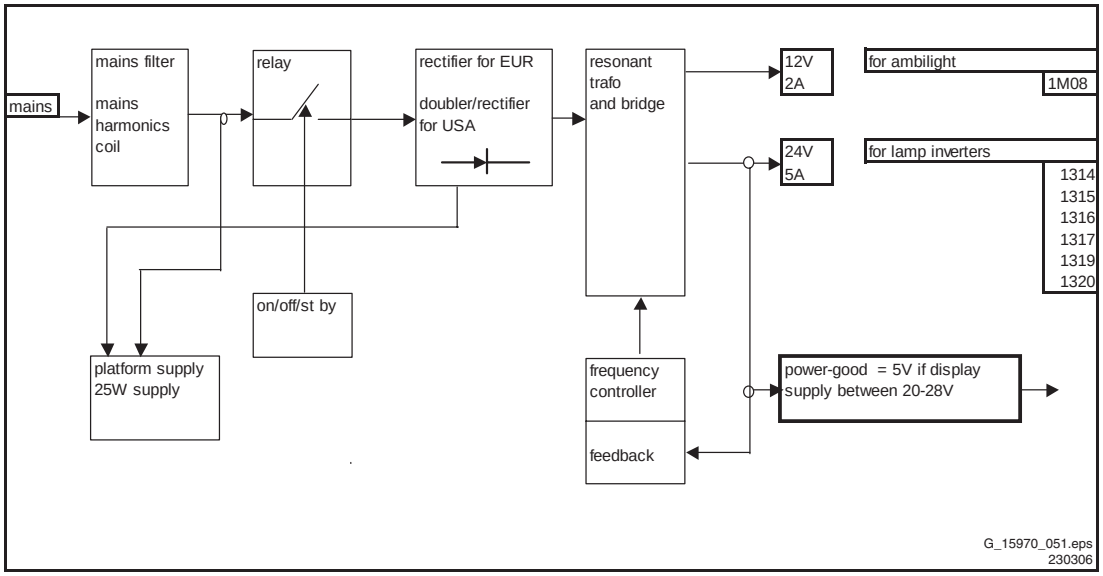


Figure 9-5 Block diagram LCD Power Supply 37"

9.3 Front-End

Main goal of the front-end module is to connect the host (core with source processing) with the outside world via an RF connector.

This chassis comes with three different front-end executions:

- For dual window DVB-T and analogue sets: two tuners (an analogue and a hybrid one).
- For non-dual window DVB-T sets: an empty analogue box and a hybrid tuner.
- For non-dual window analogue sets: only one analogue tuner.

9.3.1 Dual window applications (DVB-T and analogue sets)

The 37PF9731D/10 and 42PF9741D/10 digital (hybrid) sets and the 37PF9731/69 and 42PF9831/69 analogue sets use the UV1318ST analogue (sub)tuner **and** the TD1316AF hybrid (main)tuner. See figure “Block diagram dual window front-end (hybrid and analogue sets)” for details.

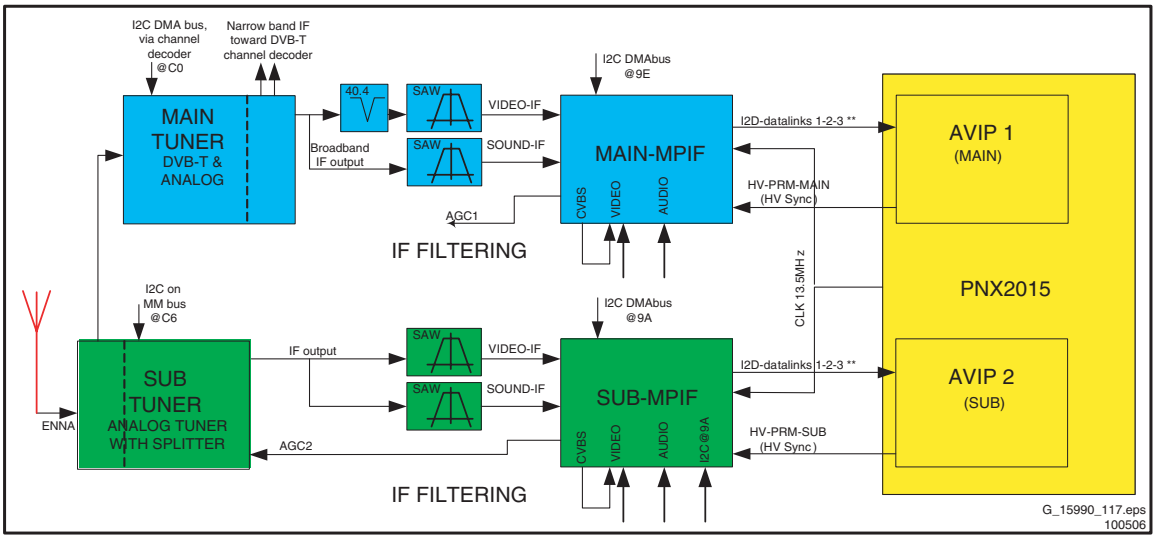


Figure 9-6 Block diagram dual window front-end (hybrid and analogue sets)

9.3.2 Non-dual window DVB-T applications

The 32PF9631D/10 and 32PF9731D/10 digital (hybrid) sets use the TD1316AF hybrid (main) tuner **and** an empty (dummy) tuner box (the UV1300T/1) as splitter. See figure “Block diagram non-dual window front-end (hybrid sets)” for details.

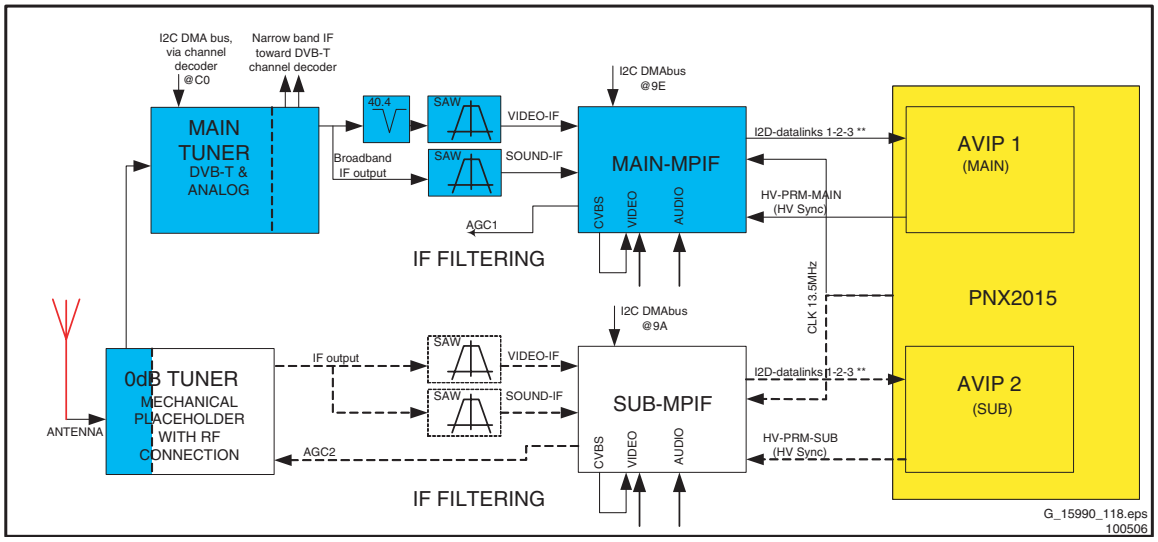


Figure 9-7 Block diagram non-dual window front-end (hybrid sets)

9.3.3 Non-dual window analogue applications

The 32PF9531/10 analogue set uses the UV1318ST analogue tuner. See figure “Block diagram non-dual window front-end (analogue sets)” for details.

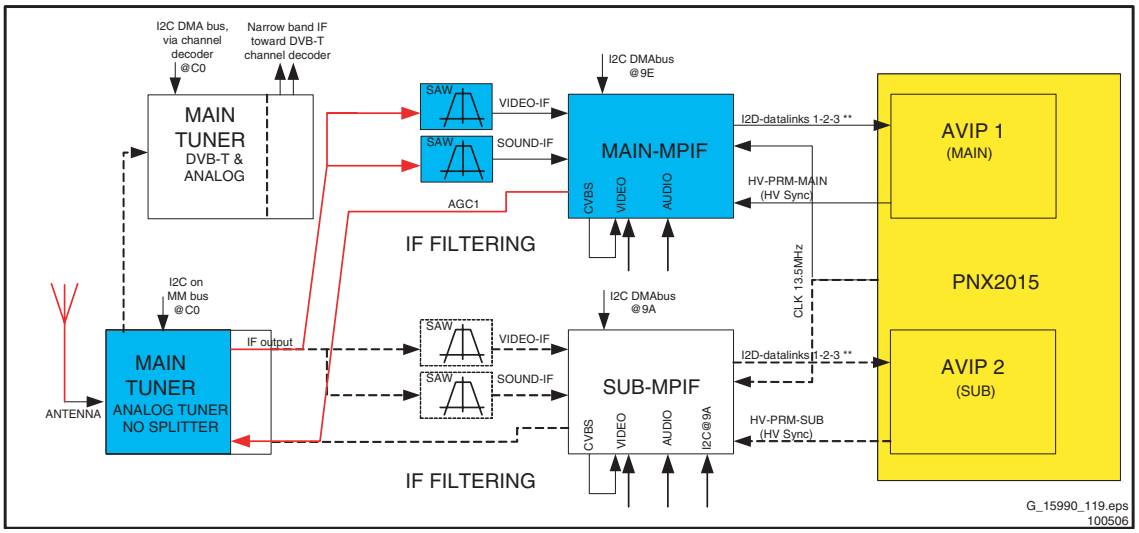


Figure 9-8 Block diagram non-dual window front-end (analogue sets)

9.4 DC/DC Converters (SSB)

9.4.1 Introduction

The LCD Supply is the main power supply for this chassis. This Power Supply delivers the following supply voltages to the chassis:

- +12VS.
- +8V6.
- +5V2.
- +5V.

For a (more) detailed description of the on-board DC/DC converters refer to the BL2.x U Service Manual.

9.5 Inputs

For a (more) detailed description of the Inputs refer to the JL2.1E AA Service Manual.

9.6 Common Interface (CI)

For a (more) detailed description of the Common Interface refer to the BJ3.0E LA Service Manual.

9.7 MPIF (PNX 3000)

For a (more) detailed description of the SPIDER refer to the BL2.1x U Service Manual.

9.8 PNX2015

The functional blocks of the PNX2015 (item 7J00) are:

- Audio Video Input Processor (AVIP).
- 3D Comb Filter (COLUMBUS).
- High Definition MPEG Decoder (HD Subsystem).
- LVDS transmitter.
- Stand-by Processor for low-power control.

For a (more) detailed description of the PNX2015 refer to the JL2.1E AA Service Manual.

9.9 SPIDER (T6TE0TBG)

For a (more) detailed description of the Inputs refer to the JL2.1E AA Service Manual.

9.10 VIPER 2 (PNX 8550)

For a (more) detailed description of the VIPER 2 refer to the JL2.1E AA Service Manual.

9.11 Back-end

In this chassis an FPGA (or EPLD or MOP) is used for AmbiLight processing and for addressing the LCD display.

The flow of signals varies with the different set executions. In general:

- In sets with an 1080p (full-HD) display, the video signal, coming from the Viper, is fed to an FPGA (the “Cyclone II”) and then flows into the Pacific 3.
- In some other sets (non full-HD) display, the video signal coming from the Viper directly flows into the Pacific 3. However, an FPGA (the “Spartan 3E”) is used to drive the AmbiLight units.
- In all other sets (non full-HD) display, no FPGA is used to drive the AmbiLight units and a microporcessor is used to drive the lamp units, as described in BJ3.0E LA manual.

In the next sections, the differences are further explained.

9.11.1 Display Control Full-HD sets

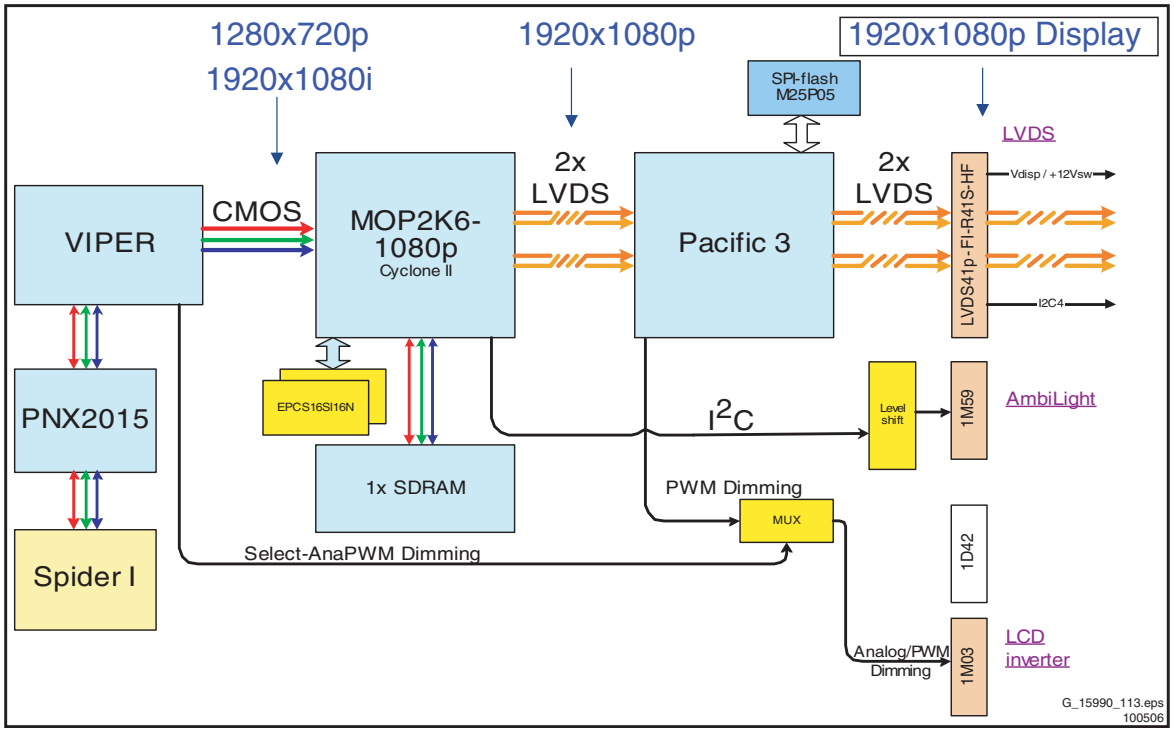


Figure 9-9 Block diagram display control full-HD sets with FPGA

In the full-HD sets, the video signal coming from the Viper is fed to the “Cyclone II” FPGA for further processing. The video signal coming from the MOP is fed to the Pacific 3 through an LVDS connection and then connected to the display. The MOP also drives the AmbiLight units through an I^2C connection. The Pacific 3 also generates the pulse-width modulated signal needed for the “Dimming Backlight” feature, which ensures additional motion sharpness. As some displays require an analogue signal to switch the LCD, a multiplexer is added to transform the pulse-width modulated signal. An additional signal, coming from the Viper, makes the selection between analogue and pulse-width modulation, depending on which display is used.

The MOP performs the following tasks:

- Scaling of input signals to output in case not an 1080i signal is received.
- Deinterlacing of input signals to output in case an 1080i signal is received.
- Additional sharpness improvement.
- AmbiLight drive (3 or 4 regions).
- Pattern generator.

The MOP interfaces:

- CMOS video input, and dual LVDS output.
- I^2C output for driving the AmbiLight unit.
- Additional configuration flash memory.
- Field memory (SDRAM) for video processing part.

9.11.2 Display Control Non Full-HD sets with FPGA

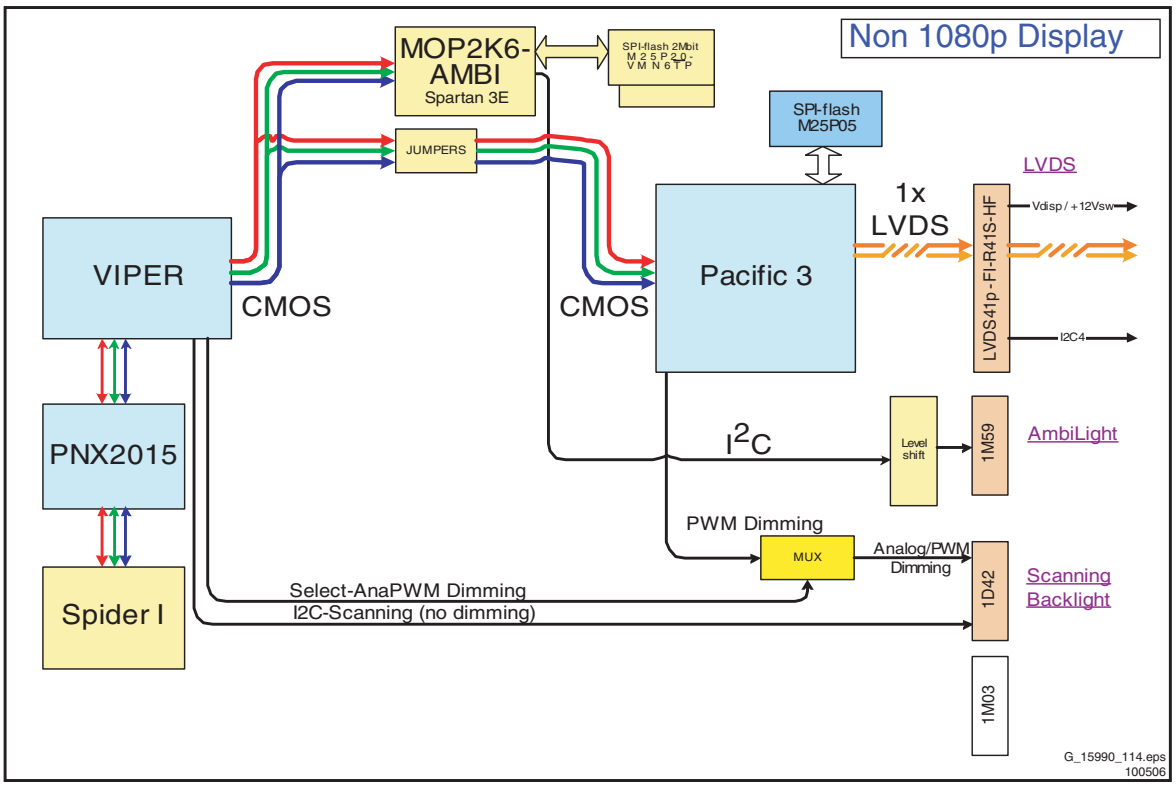


Figure 9-10 Block diagram display control non full-HD sets with FPGA

In non full-HD sets with an FPGA, the video signal coming from the Viper is directly fed to the Pacific 3 through an CMOS connection. The FPGA however is used for AmbiLight processing through an I²C connection. The signal for Dimming Backlight is coming from the Pacific 3 and can be analogue or pulse-width modulated, depending on which display is used. The signal for Scanning Backlight is an I²C signal coming from Viper. The MOP interfaces:

- CMOS video input.
- I²C output for driving the AmbiLight unit.
- Additional configuration flash memory.

9.11.3 Display Control Non Full-HD sets without FPGA

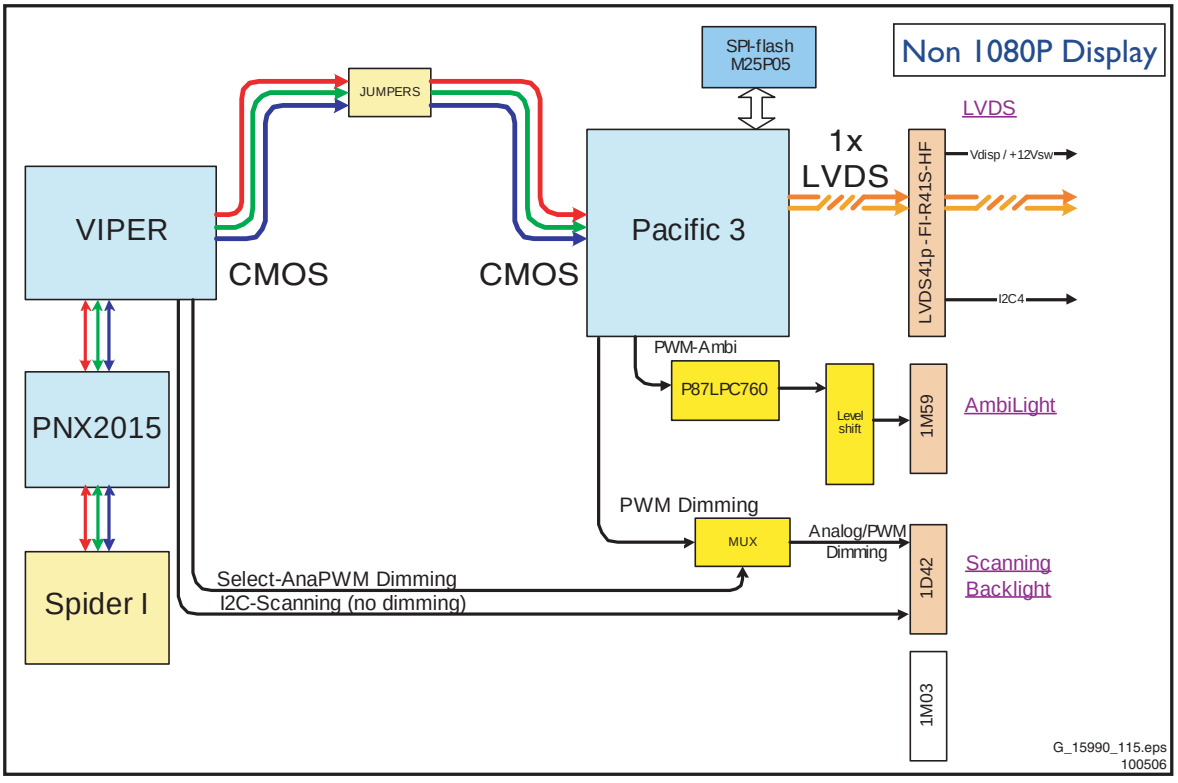


Figure 9-11 Block diagram display control non full-HD sets without FPGA

In non full-HD sets without an FPGA, the video signal coming from the Viper is again directly fed to the Pacific 3 through a CMOS connection. In this case the Pacific 3 drives the AmbiLight units and generates the pulse-width modulated signal needed for the “Dimming Backlight” feature. This configuration is also described in the BJ3.0x LA service manuals.

The Pacific performs the following tasks:

- Colour processing.
- Additional sharpness improvement.
- Backlight dimming.
- AmbiLight drive (2 regions).
- Display switch ON and OFF.
- Pattern generator.

The Pacific interfaces:

- CMOS video input, and LVDS video output.
- Backlight dimming is implemented through pulse-width modulated signal.
- AmbiLight driving is also implemented through pulse-width modulated signal.
- Additional configuration flash memory.

9.12 Ambient Light

For a (more) detailed description of the Inputs refer to the BP2.xU Service Manual.

9.13 Abbreviation List

0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3 format
2DNR	Spatial (2D) Noise Reduction
3DNR	Temporal (3D) Noise Reduction
AARA	Automatic Aspect Ratio Adaptation: algorithm that adapts aspect ratio to remove horizontal black bars; keeps the original aspect ratio
ACI	Automatic Channel Installation: algorithm that installs TV channels directly from a cable network by means of a predefined TXT page
ADC	Analogue to Digital Converter
AFC	Automatic Frequency Control: control signal used to tune to the correct frequency
AGC	Automatic Gain Control: algorithm that controls the video input of the feature box
AM	Amplitude Modulation
ANR	Automatic Noise Reduction: one of the algorithms of Auto TV
AP	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASF	Auto Screen Fit: algorithm that adapts aspect ratio to remove horizontal black bars without discarding video information
ATSC	Advanced Television Systems Committee, the digital TV standard in the USA
ATV	See Auto TV
Auto TV	A hardware and software control system that measures picture content, and adapts image parameters in a dynamic way
AV	External Audio Video
AVIP	Audio Video Input Processor
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz
BLR	Board-Level Repair
BTSC	Broadcast Television Standard Committee. Multiplex FM stereo sound system, originating from the USA and used e.g. in LATAM and AP-NTSC countries
B-TXT	Blue TeleteXT
C	Centre channel (audio)
CEC	Consumer Electronics Control bus: remote control bus on HDMI connections
CL	Constant Level: audio output to connect with an external amplifier
CLR	Component Level Repair
COLUMBUS	COlour LUMinance Baseband Universal Sub-system
ComPair	Computer aided rePair
CP	Connected Planet / Copy Protection
CSM	Customer Service Mode
CTI	Colour Transient Improvement: manipulates steepness of chroma transients
CVBS	Composite Video Blanking and Synchronization
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DDC	See "E-DDC"
D/K	Monochrome TV system. Sound carrier distance is 6.5 MHz
DFU	Directions For Use: owner's manual
DMR	Digital Media Reader: card reader
DNR	Digital Noise Reduction: noise reduction feature of the set
DRAM	Dynamic RAM
DRM	Digital Rights Management
DSP	Digital Signal Processing
DST	Dealer Service Tool: special remote control designed for service technicians
DTCP	Digital Transmission Content Protection; A protocol for protecting digital audio/video content that is traversing a high speed serial bus, such as IEEE-1394
DVD	Digital Versatile Disc
DVI(-d)	Digital Visual Interface (d= digital only)
E-DDC	Enhanced Display Data Channel (VESA standard for communication channel and display). Using E-DDC, the video source can read the EDID information form the display.
EDID	Extended Display Identification Data (VESA standard)
EEPROM	Electrically Erasable and Programmable Read Only Memory
EMI	Electro Magnetic Interference
EPLD	Erasable Programmable Logic Device
EU	Europe
EXT	EXTernal (source), entering the set by SCART or by cinches (jacks)
FBL	Fast BLanking: DC signal accompanying RGB signals
FDS	Full Dual Screen (same as FDW)
FDW	Full Dual Window (same as FDS)
FLASH	FLASH memory
FM	Field Memory or Frequency Modulation
FPGA	Field-Programmable Gate Array
FTV	Flat TeleVision
Gb/s	Giga bits per second
G-TXT	Green TeleteXT
H	H_sync to the module
HD	High Definition
HDD	Hard Disk Drive
HDCP	High-bandwidth Digital Content Protection: A "key" encoded into the HDMI/DVI signal that prevents video data piracy. If a source is HDCP coded and connected via HDMI/DVI without the proper HDCP decoding, the picture is put into a "snow vision" mode or changed to a low resolution. For normal content distribution the source and the display device must be enabled for HDCP "software key" decoding.
HDMI	High Definition Multimedia Interface
HP	HeadPhone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz
I^2C	Inter IC bus
I^2D	Inter IC Data bus
I^2S	Inter IC Sound bus
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.
IR	Infra Red
IRQ	Interrupt Request
ITU-656	The ITU Radio communication Sector (ITU-R) is a standards body subcommittee of the International

	Telecommunication Union relating to radio communication. ITU-656 (a.k.a. SDI), is a digitized video format used for broadcast grade video. Uncompressed digital component or digital composite signals can be used. The SDI signal is self-synchronizing, uses 8 bit or 10 bit data words, and has a maximum data rate of 270 Mbit/s, with a minimum bandwidth of 135 MHz.
ITV	Institutional TeleVision; TV sets for hotels, hospitals etc.
JOP	Jaguar Output Processor
LS	Last Status; The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences
LATAM	Latin America
LCD	Liquid Crystal Display
LED	Light Emitting Diode
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
LORE	LOcal REgression approximation noise reduction
LPL	LG.Philips LCD (supplier)
LS	Loudspeaker
LVDS	Low Voltage Differential Signalling
Mbps	Mega bits per second
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz
MIPS	Microprocessor without Interlocked Pipeline-Stages; A RISC-based microprocessor
MOP	Matrix Output Processor
MOSFET	Metal Oxide Silicon Field Effect Transistor, switching device
MPEG	Motion Pictures Experts Group
MPIF	Multi Platform InterFace
MUTE	MUTE Line
NC	Not Connected
NICAM	Near Instantaneous Compounded Audio Multiplexing. This is a digital sound system, mainly used in Europe.
NTC	Negative Temperature Coefficient, non-linear resistor
NTSC	National Television Standard Committee. Colour system mainly used in North America and Japan. Colour carrier NTSC M/N= 3.579545 MHz, NTSC 4.43= 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non-Volatile Memory: IC containing TV related data such as alignments
O/C	Open Circuit
OSD	On Screen Display
OTC	On screen display Teletext and Control; also called Artistic (SAA5800)
P50	Project 50: communication protocol between TV and peripherals
PAL	Phase Alternating Line. Colour system mainly used in West Europe (colour carrier= 4.433619 MHz) and South America (colour carrier PAL M= 3.575612 MHz and PAL N= 3.582056 MHz)
PCB	Printed Circuit Board (same as "PWB")
PCM	Pulse Code Modulation
PDP	Plasma Display Panel
PFC	Power Factor Corrector (or Pre-conditioner)
PIP	Picture In Picture
PLL	Phase Locked Loop. Used for e.g. FST tuning systems. The customer can give directly the desired frequency
POR	Power On Reset, signal to reset the uP
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
PTC	Positive Temperature Coefficient, non-linear resistor
PWB	Printed Wiring Board (same as "PCB")
PWM	Pulse Width Modulation
QTNR	Quality Temporal Noise Reduction
QVCP	Quality Video Composition Processor
RAM	Random Access Memory
RGB	Red, Green, and Blue. The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced.
RC	Remote Control
RC5 / RC6	Signal protocol from the remote control receiver
RESET	RESET signal
ROM	Read Only Memory
R-TXT	Red TeleteXT
SAM	Service Alignment Mode
S/C	Short Circuit
SCART	Syndicat des Constructeurs d'Appareils Radiorecepteurs et Televisieurs
SCL	Serial Clock I^2C
SCL-F	CLock Signal on Fast I^2C bus
SD	Standard Definition
SDA	Serial Data I^2C
SDA-F	DAta Signal on Fast I^2C bus
SDI	Serial Digital Interface, see “ITU-656”
SDRAM	Synchronous DRAM
SECAM	SEequence Couleur Avec Memoire. Colour system mainly used in France and East Europe. Colour carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMPS	Switched Mode Power Supply
SOG	Sync On Green
SOPS	Self Oscillating Power Supply
S/PDIF	Sony Philips Digital InterFace
SRAM	Static RAM
SSB	Small Signal Board
STBY	STand-BY
SVGA	800x600 (4:3)
SVHS	Super Video Home System
SW	Software
SWAN	Spatial temporal Weighted Averaging Noise reduction
SXGA	1280x1024
TFT	Thin Film Transistor
THD	Total Harmonic Distortion
TMDS	Transmission Minimized Differential Signalling
TXT	TeleteXT
TXT-DW	Dual Window with TeleteXT
uP	Microprocessor
UXGA	1600x1200 (4:3)
V	V-sync to the module
VCR	Video Cassette Recorder
VESA	Video Electronics Standards Association
VGA	640x480 (4:3)
VL	Variable Level out: processed audio output toward external amplifier
VSB	Vestigial Side Band; modulation method

WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
WXGA	1280x768 (15:9)
XTAL	Quartz crystal
XGA	1024x768 (4:3)
Y	Luminance signal
Y/C	Luminance (Y) and Chrominance (C) signal
YPbPr	Component video. Luminance and scaled colour difference signals (B-Y and R-Y)
YUV	Component video

9.14 IC Data Sheets

This section shows the internal block diagrams and pin configurations of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

9.14.1 Diagram A1, AVS1ACP08 (IC 7805)

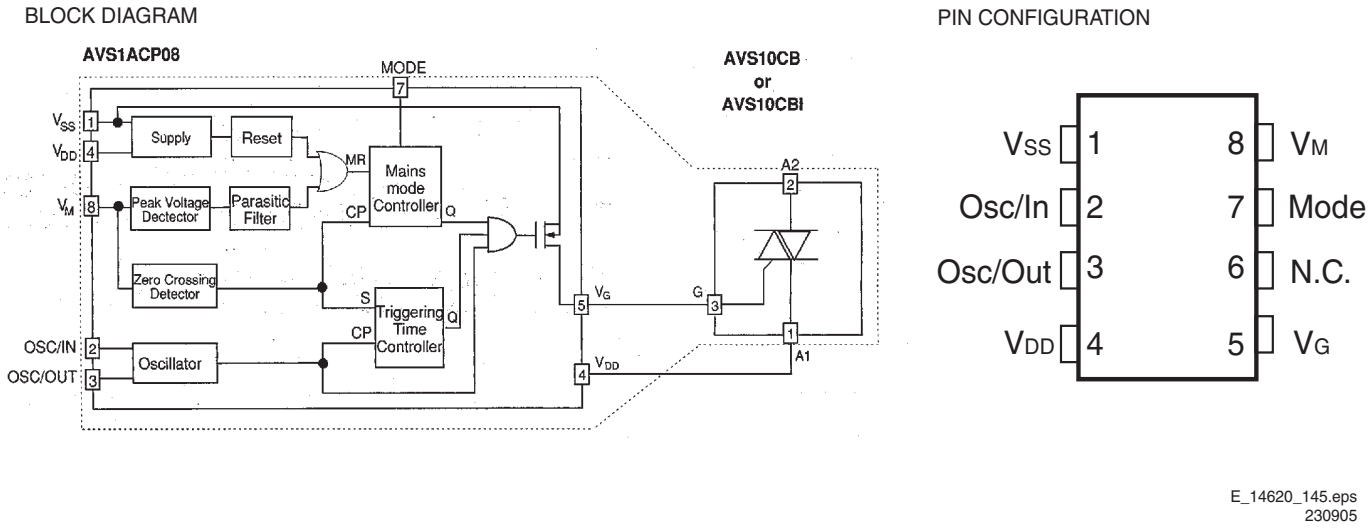


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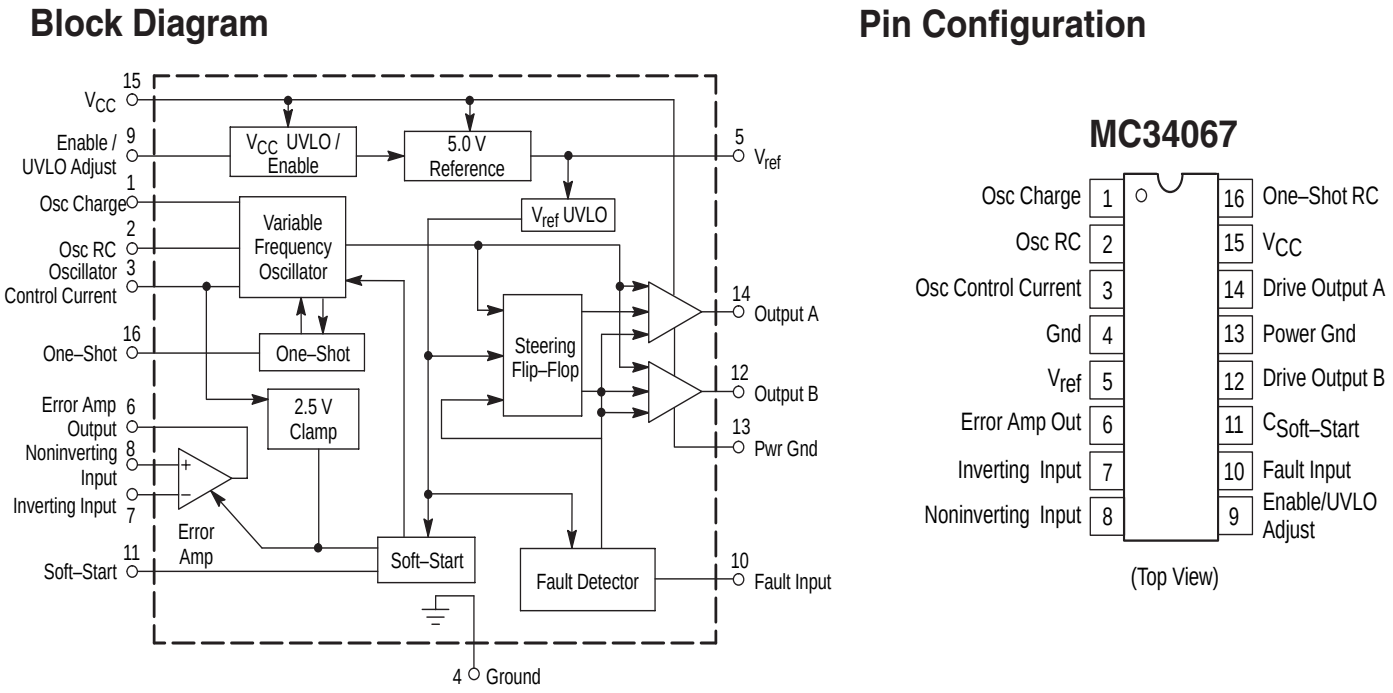
Figure 9-12 Internal block diagram and pin configuration

9.14.2 Diagram A2, MC34067P (IC 7001)



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230905

Figure 9-13 Internal block diagram and pin configuration

9.14.3 Diagram A3, TEA1506AT (IC7P27)

Block diagram

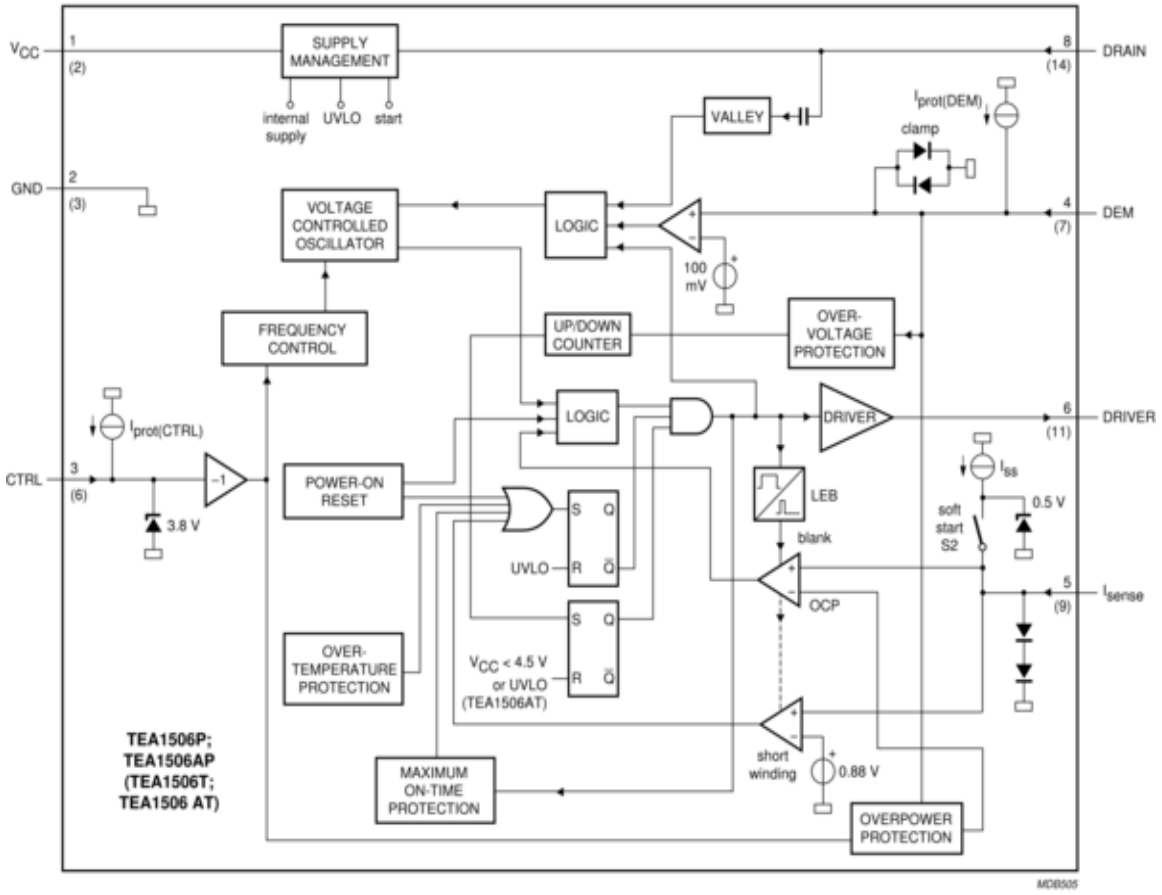
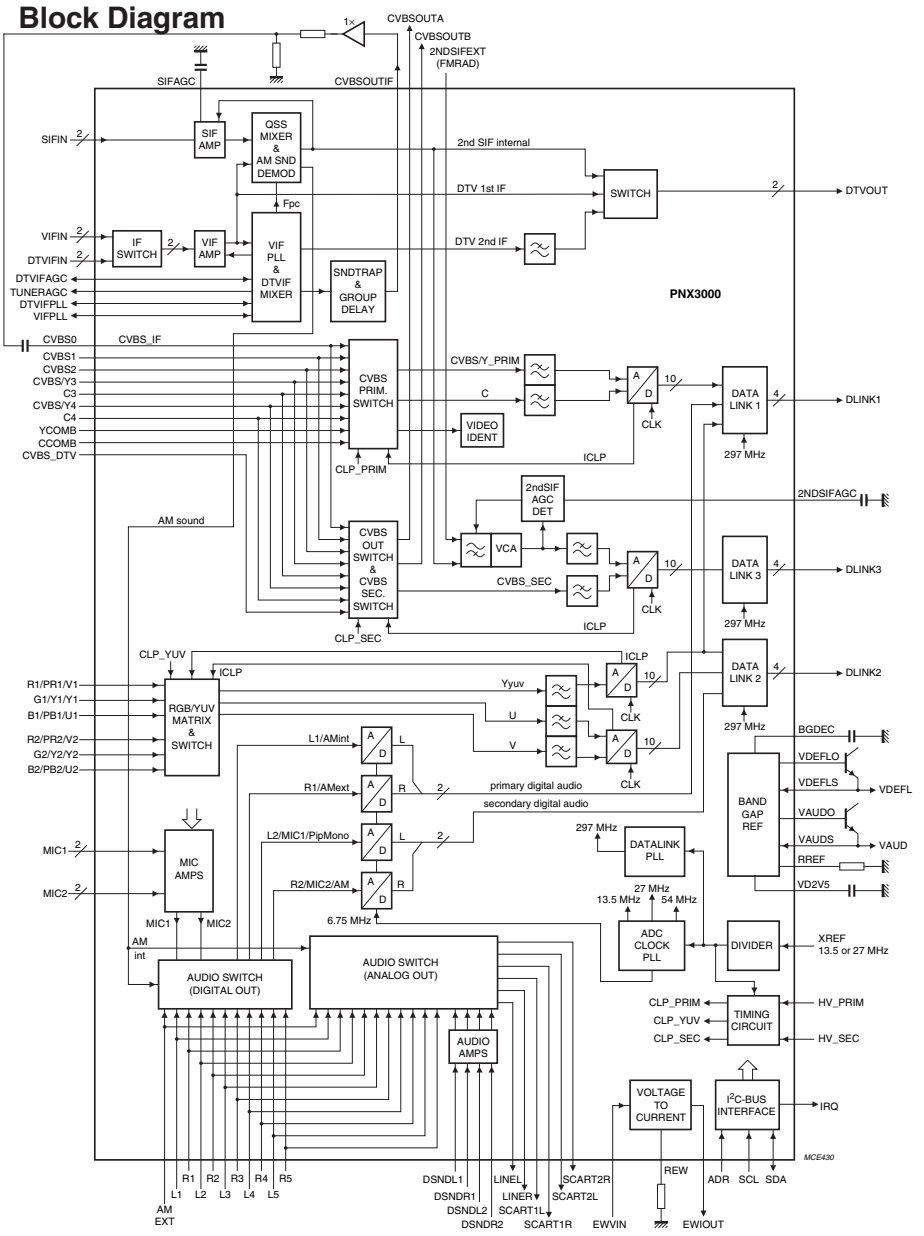


Figure 9-14 Internal block diagram and pin configuration

9.14.4 Diagram B4x, PNX3000HL (IC 7C00)

Block Diagram



Pin Configuration

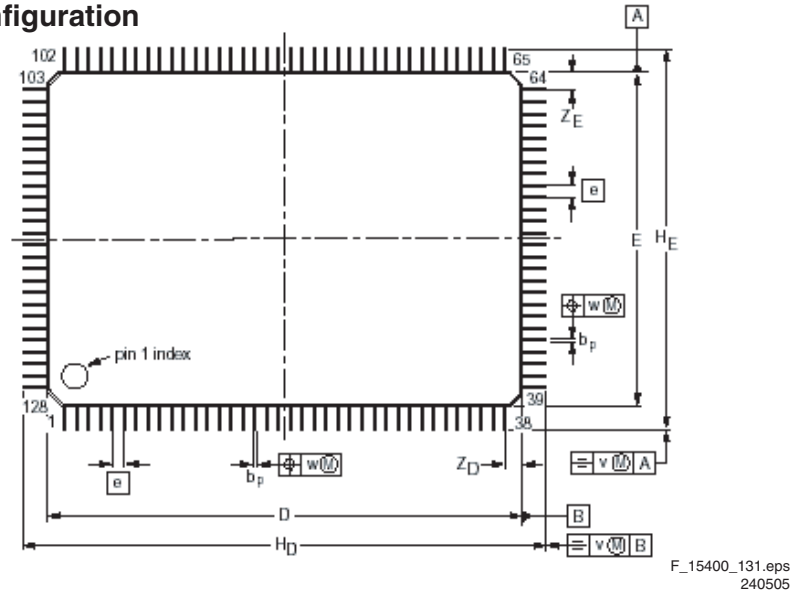


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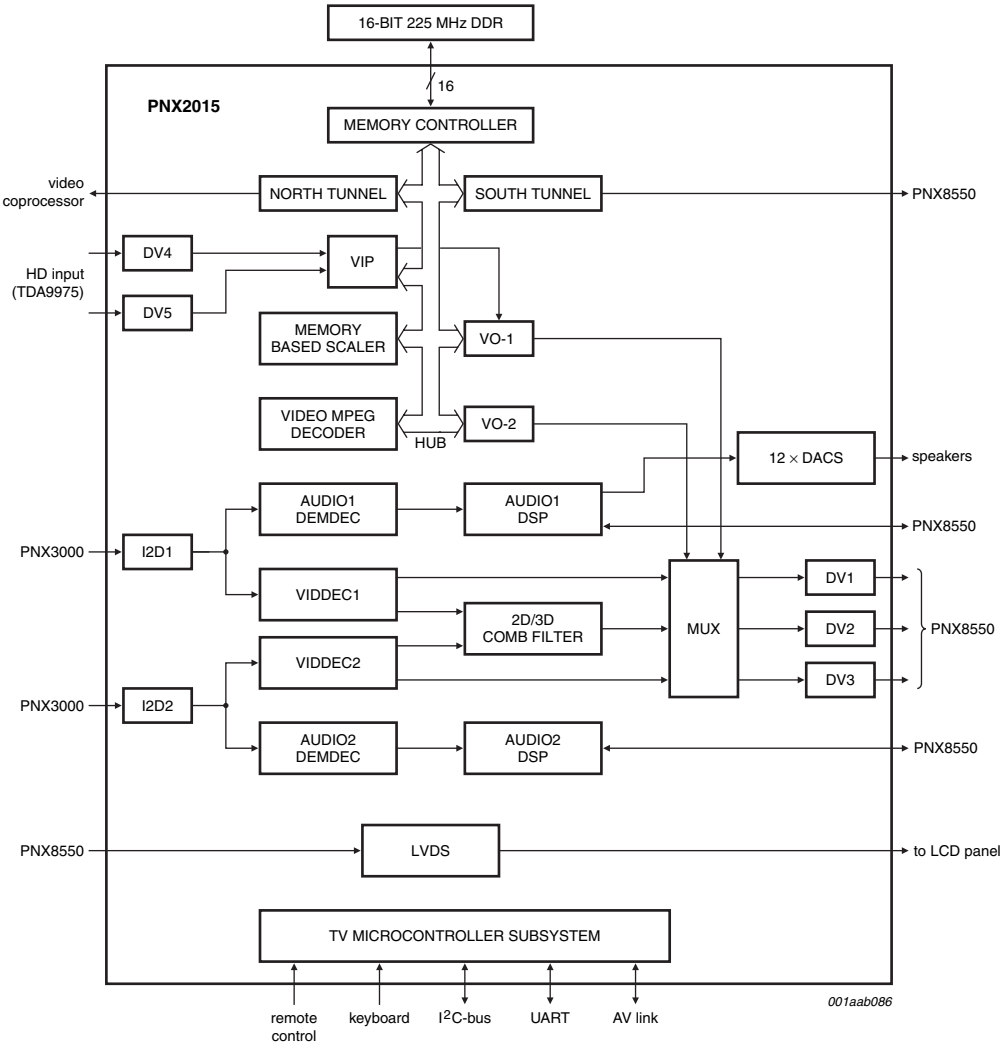
Figure 9-15 Internal block diagram and pin configuration

9.14.5 Diagram B4x, PNX2015E (IC 7J00)

Block Diagram



Pin Configuration

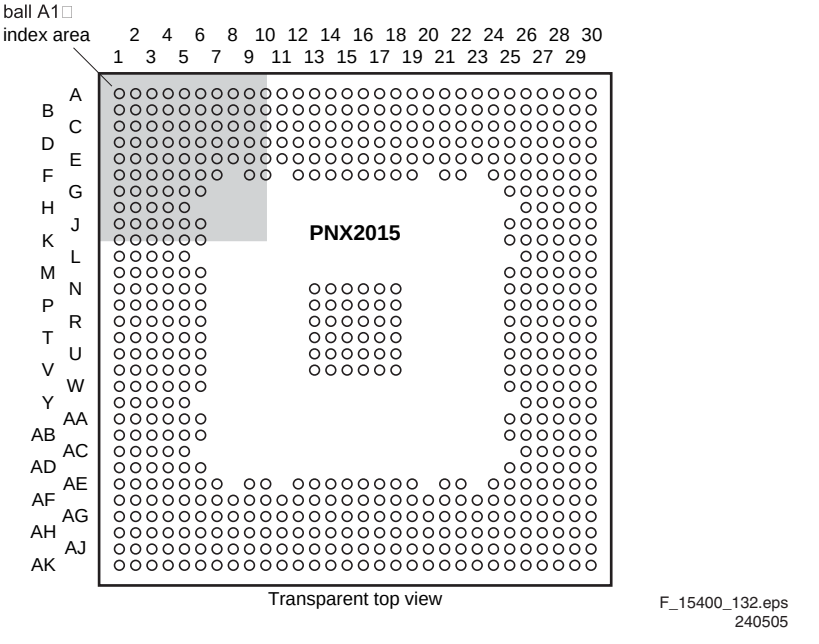


Figure 9-16 Internal block diagram and pin configuration

9.14.6 Diagram B6x, T6TE0TBG SPIDER (IC 7R00)

Pin Configuration

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	AA	AB	AC
23	A23 RESET SMTTIF	B23 TST1 TLCHTHIF	C23 TST2 TLCHTHIF	D23 TCK SMTTIF	E23 SDA WBDIICODIF	F23 TRST TLCHTHIF	G23 TDO BT16RIF	H23 INT BT4RIF	J23 DDR_A3 Z7BSSTHC1	K23 DDR_A2 Z7BSSTHC1	L23 DDR_A1 Z7BSSTHC1	M23 DDR_A0 Z7BSSTHC1	N23 DDR_A11 Z7BSSTHC1	P23 DDR_A8 Z7BSSTHC1	R23 DDR_BA0 Z7BSSTHC1	T23 DDR_RASN Z7BSSTHC1	U23 DDR_CASN Z7BDSSTHC1	V23 DDR_CKE Z7BSSTHC1	W23 DDR_CKI Z7ISSTFC1	Y23 DDR_LDQS Z7BDSSTHC1	AA23 DDR_CKN Z7BSSTHC1		AC23 DDR_DQ1 Z7BDSSTHC1
22		B22 TST_OUT9 BT4RIF	C22 TST0 TLCHTHIF	D22 TST3 TLCHTHIF	E22 SCL WBDIICODIF	F22 TMS TLCHTHIF	G22 TDI TLCHTHIF			K22 DDR_A4 Z7BSSTHC1	L22 DDR_A5 Z7BSSTHC1	M22 DDR_A6 Z7BSSTHC1	N22 DDR_A7 Z7BSSTHC1	P22 DDR_A10 Z7BSSTHC1	R22 DDR_BA1 Z7BSSTHC1	T22 DDR_A9 Z7BSSTHC1		V22 DDR_WEN Z7BDSSTHC1		Y22 DDR_UDQS Z7BDSSTHC1	AA22 DDR_CK Z7BDSSTHC1	AB22 DDR_DQ0 Z7BDSSTHC1	AC22 DDR_DQ3 Z7BDSSTHC1
21	A21 TST_OUT6 BT4RIF	B21 TST_OUT7 BT4RIF	C21 TST_OUT8 BT4RIF																			AB21 DDR_DQ2 Z7BDSSTHC1	
20	A20 TST_OUT4 BT4RIF	B20 TST_OUT5 BT4RIF																V20 DDR_VREF3 Z7VRSSTC1				AB20 DDR_DQ4 Z7BDSSTHC1	AC20 DDR_DQ5 Z7BDSSTHC1
19	A19 TST_OUT2 BT4RIF	B19 TST_OUT3 BT4RIF																			AA19 DDR_VREF2 Z7VRSSTC1	AB19 DDR_DQ6 Z7BDSSTHC1	
18	A18 TST_OUT0 BT4RIF	B18 TST_OUT1 BT4RIF																				AB18 DDR_DQ7 Z7BDSSTHC1	AC18 DDR_DQ8 Z7BDSSTHC1
17	A17 TST_IN8 TLCHTHIF	B17 TST_IN9 TLCHTHIF																				AB17 DDR_DQ9 Z7BDSSTHC1	AC17 DDR_DQ10 Z7BDSSTHC1
16	A16 TST_IN7 TLCHTHIF																						
15	A15 TST_IN6 TLCHTHIF	B15 TST_IN5 TLCHTHIF																			AA15 DDR_VREF1 Z7VRSSTC1	AB15 DDR_DQ11 Z7BDSSTHC1	AC15 DDR_DQ12 Z7BDSSTHC1
14	A14 TST_IN4 TLCHTHIF	B14 TST_IN3 TLCHTHIF																				AB14 DDR_DQ13 Z7BDSSTHC1	AC14 DDR_DQ14 Z7BDSSTHC1
13	A13 TST_IN2 TLCHTHIF	B13 TST_IN1 TLCHTHIF																					AC13 DDR_DQ15 Z7BDSSTHC1
12	A12 TST_IN0 TLCHTHIF	B12 TUN_RX_DATA10 Z7ISSTFC1																					
11		B11 TUN_RX_DATA8 Z7ISSTFC1																				AB11 TST_IN10 TLCHTHIF	AC11 TST_IN11 TLCHTHIF
10	A10 TUN_RX_DATA15 Z7ISSTFC1	B10 TUN_RX_BUSY Z7BTSSTHC1																				AB10 TST_IN12 TLCHTHIF	AC10 TST_IN13 TLCHTHIF
9	A9 TUN_RX_DATA14 Z7ISSTFC1	B9 TUN_RX_DATA13 Z7ISSTFC1	C9 TUN_RX_VREF1 Z7VRSSTC1																			AB9 TST_IN14 TLCHTHIF	AC9 TST_IN15 TLCHTHIF
8		B8 TUN_RX_DATA12 Z7ISSTFC1																				AB8 BISTEN TLCHTHIF	AC8 DIODE_IN ZETMDL
7	A7 TUN_RX_CKAN Z7ISSTFC1	B7 TUN_RX_DATA11 Z7ISSTFC1																				AB7 TST_CLK0 TLCHTHIF	AC7 DIODE_OUT ZETMDR
6	A6 TUN_RX_CKAP Z7ISSTFC1	B6 TUN_RX_DATA3 Z7ISSTFC1		D6 TUN_RX_VREF2 Z7VRSSTC1																		AB6 TST_CLK1 TLCHTHIF	
5	A5 TUN_RX_DATA7 Z7ISSTFC1	B5 TUN_RX_DATA6 Z7ISSTFC1																					AC5 TST_CLK2 TLCHTHIF
4	A4 TUN_RX_DATA5 Z7ISSTFC1																					AB4 SCLOUTP_PLL ZEBDRV	AC4 SCLOUTN_PLL ZEBDRV
3	A3 TUN_RX_DATA4 Z7ISSTFC1	B3 TUN_RX_DATA9 Z7ISSTFC1										M3 TUN_TX_VREF1 Z7VRSSTC1									AA3 TST_IN16 TLCHTHIF		
2	A2 TUN_RX_DATA0 Z7ISSTFC1	B2 TUN_RX_DATA1 Z7ISSTFC1	C2 TUN_TX_DATA14 Z7BTSSTHC1	D2 TUN_TX_DATA8 Z7BTSSTHC1		F2 TUN_TX_DATA5 Z7BTSSTHC1	G2 TUN_TX_CKAP Z7BTSSTHC1		J2 TUN_TX_DATA7 Z7BTSSTHC1	K2 TUN_TX_DATA0 Z7BTSSTHC1			N2 TUN_TX_DATA4 Z7BTSSTHC1	P2 TST_PD TLCHTHIF	R2 TST_OUT18 BT4RIF	T2 TST_OUT16 BT4RIF	U2 TST_OUT14 BT4RIF	V2 TST_OUT12 BT4RIF	W2 TST_OUT10 BT4RIF	Y2 CLK TLCHTHIF	AA2 TST_IN19 TLCHTHIF	AB2 TST_IN17 TLCHTHIF	
1	A1 TUN_RX_DATA2 Z7ISSTFC1	B1 TUN_TX_DATA12 Z7BTSSTHC1	C1 TUN_TX_DATA15 Z7BTSSTHC1	D1 TUN_TX_DATA13 Z7BTSSTHC1	E1 TUN_TX_DATA10 Z7BTSSTHC1	F1 TUN_TX_DATA9 Z7BTSSTHC1	G1 TUN_TX_DATA11 Z7BTSSTHC1	H1 TUN_TX_CKAN Z7BTSSTHC1	J1 TUN_TX_DATA3 Z7BTSSTHC1	K1 TUN_TX_DATA6 Z7BTSSTHC1	L1 TUN_TX_DATA1 Z7BTSSTHC1	M1 TUN_TX_BUSY Z7ISSTFC1	N1 TUN_TX_DATA2 Z7BTSSTHC1	P1 TST_SCAN_TUN TLCHTHIF	R1 TST_OUT19 BT4RIF	T1 TST_OUT17 BT4RIF	U1 TST_OUT15 BT4RIF	V1 TST_OUT13 BT4RIF	W1 TST_OUT11 BT4RIF	Y1 TST_CLK3 TLCHTHIF	AA1 LFMONP_PLL ZEBDRV	AB1 LFMONN_PLL ZEBDRV	AC1 TST_IN18 TLCHTHIF

T6TE0TBG

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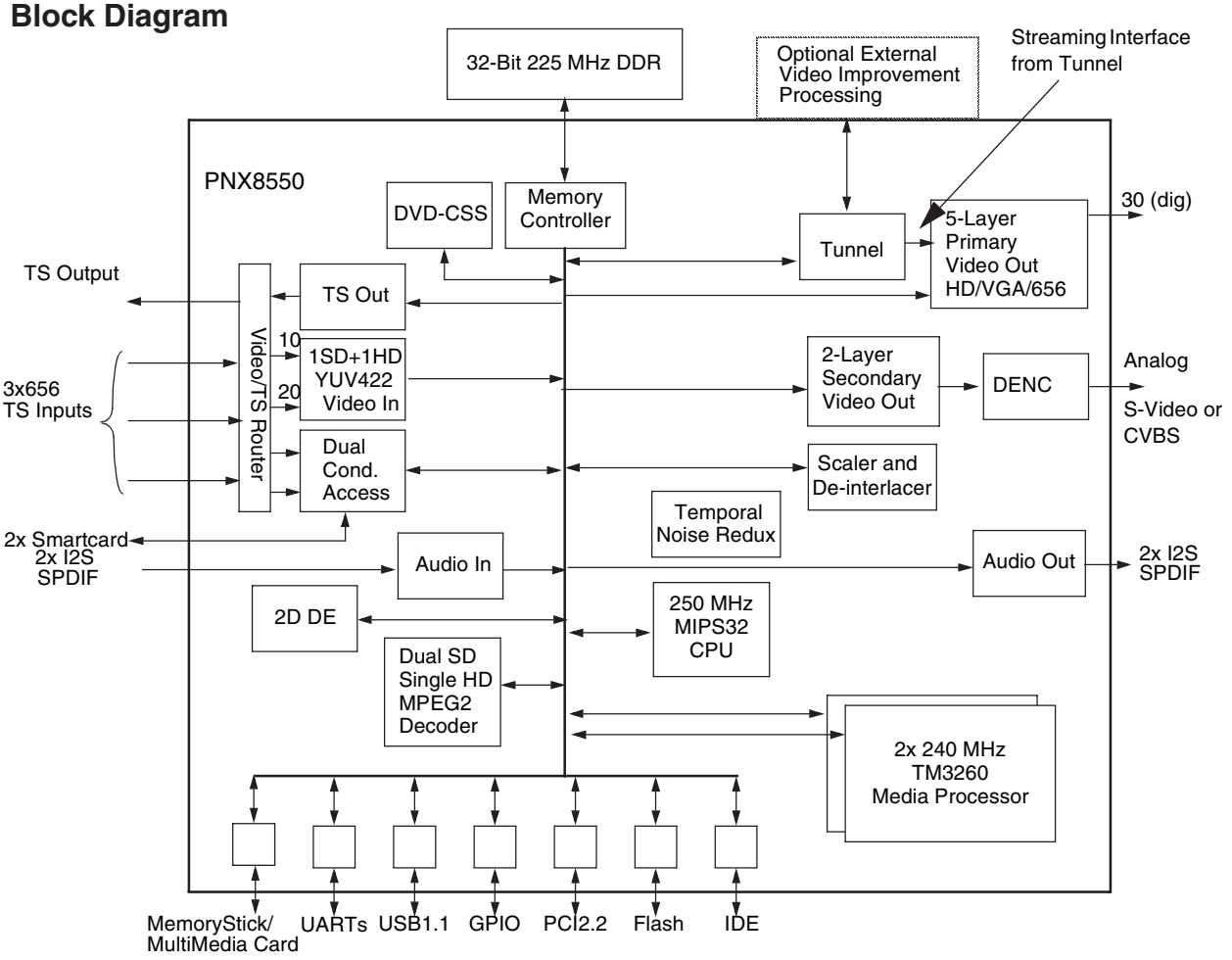
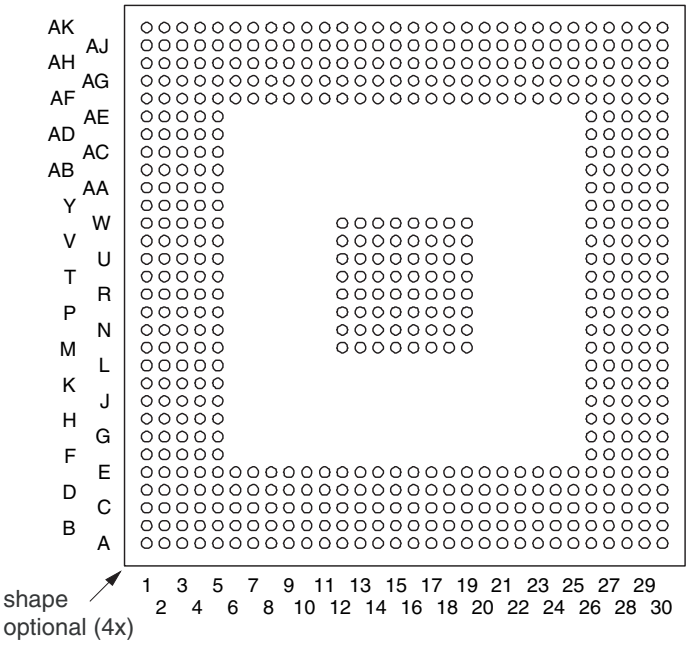
Figure 9-17 Pin configuration

9.14.7 Diagram B7x, PNX8550EH (IC 7V00)

Block Diagram



Pin Configuration



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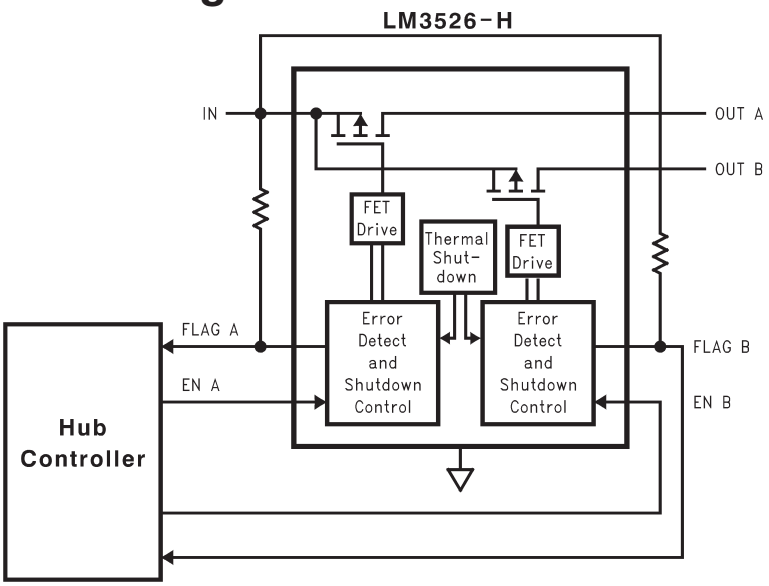
250505

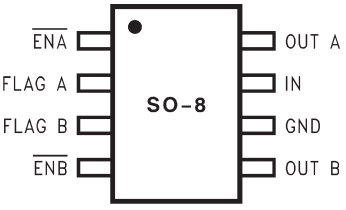
Figure 9-18 Internal block diagram and pin configuration

9.14.8 Diagram B7A, LM3526MX (IC 7Q01)

Block Diagram



Pin Configuration



LM3526-L

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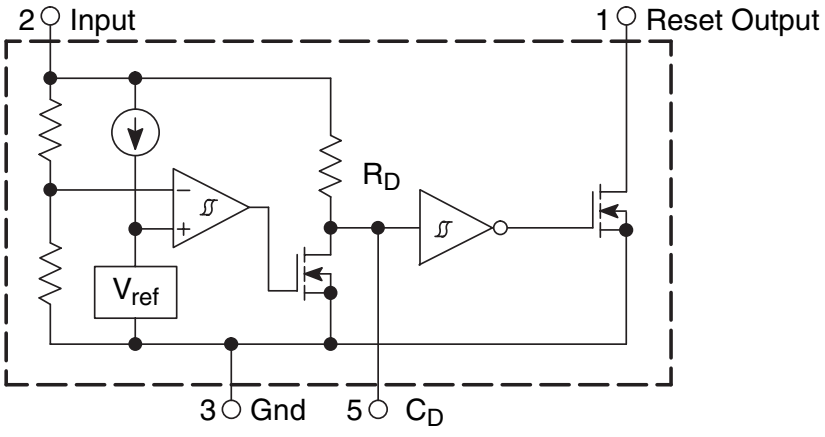
230905

Figure 9-19 Internal block diagram and pin configuration

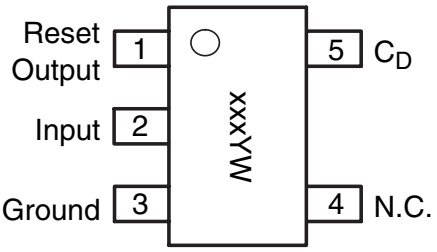
9.14.9 Diagram B8A, NCP303LSN (IC 7LB0 - 7LB4)

Block Diagram

NCP303LSNxxT1
Open Drain Output Configuration



Pin Configuration



xxx = 302 or 303
Y = Year
W = Work Week

(Top View)

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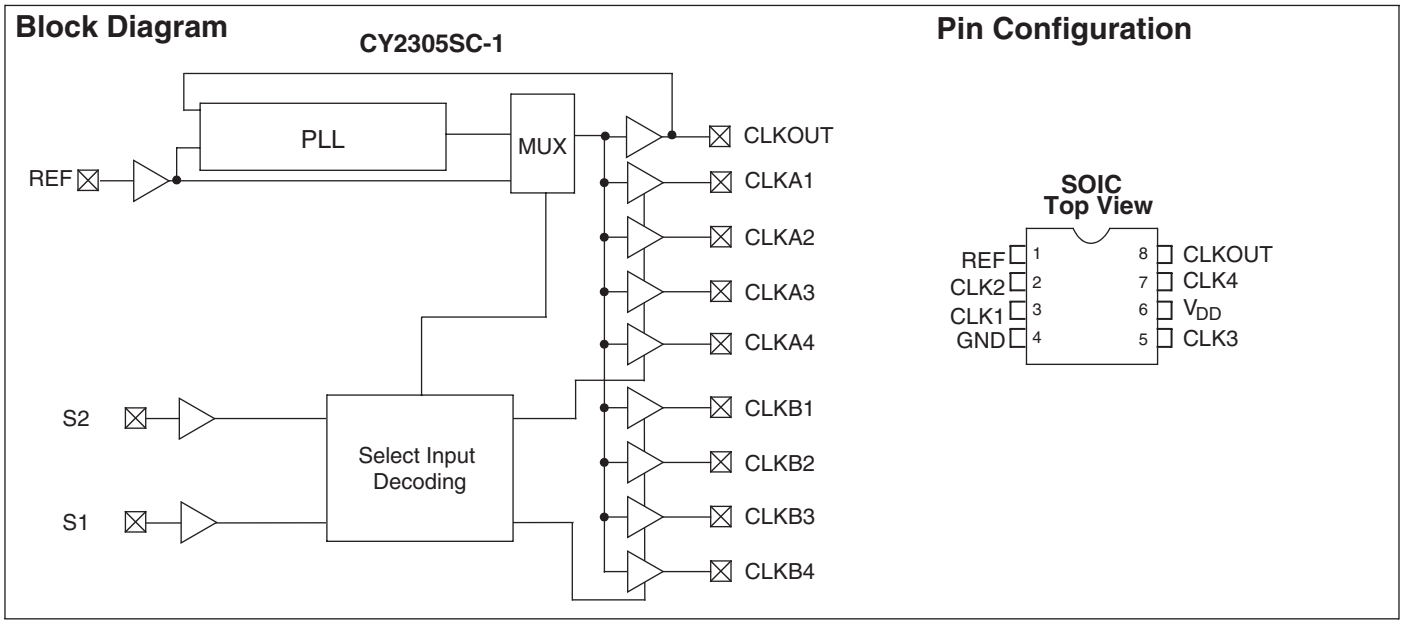
230905

Figure 9-20 Internal block diagram and pin configuration

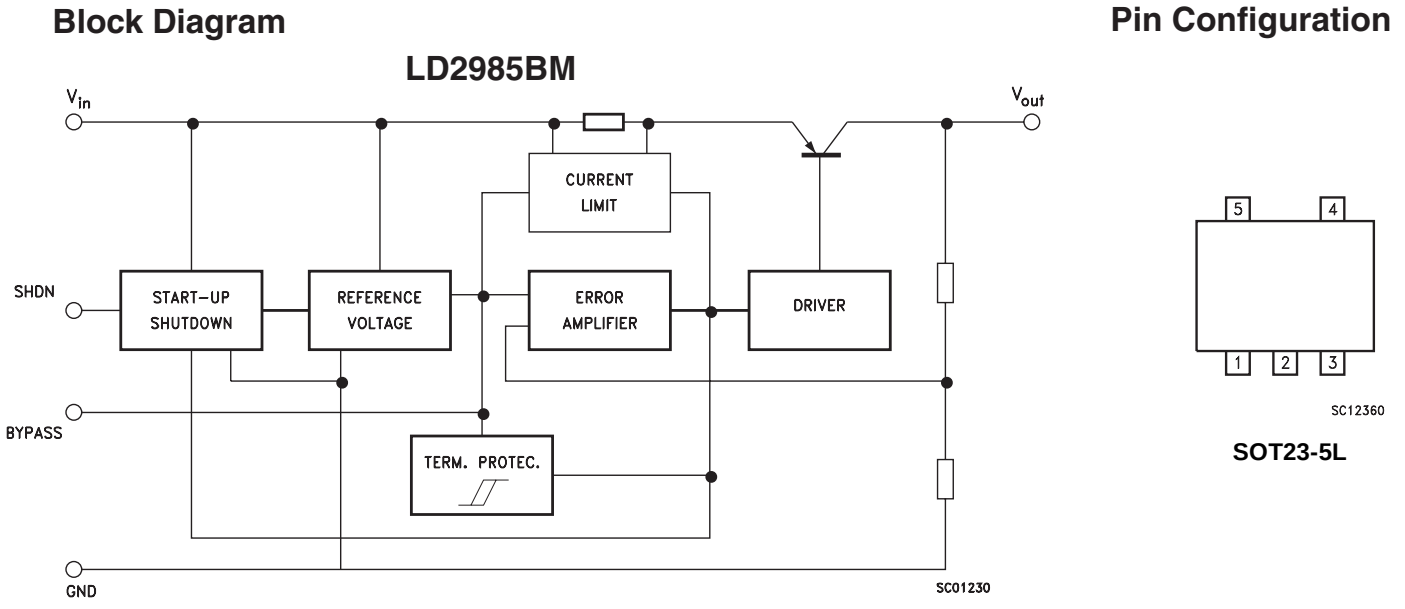
9.14.10 Diagram B8B, CY2305SC-1 (IC 7J08)



E_14620_146.eps
241004

Figure 9-21 Internal block diagram and pin configuration

9.14.11 Diagram B9A, LD2985BM (IC 7G00)

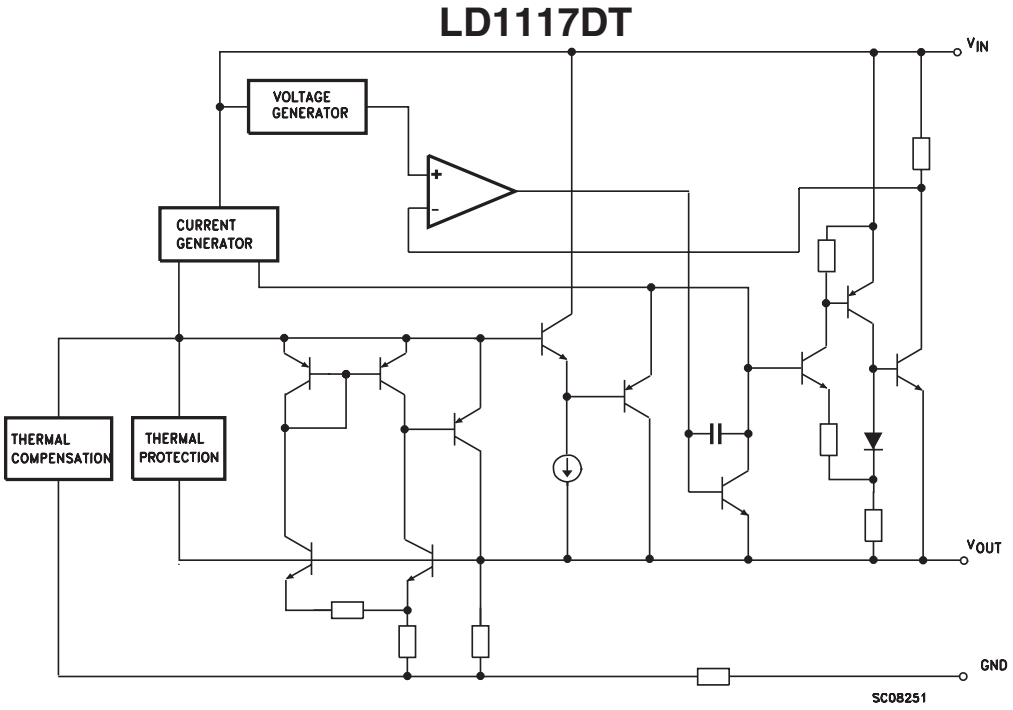


F_15710_165.eps
230905

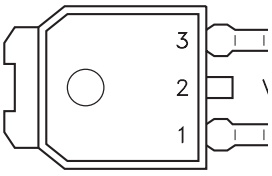
Figure 9-22 Internal block diagram and pin configuration

9.14.12 Diagram B9A, LD1117DT (IC7G01)

Block Diagram



Pin Configuration



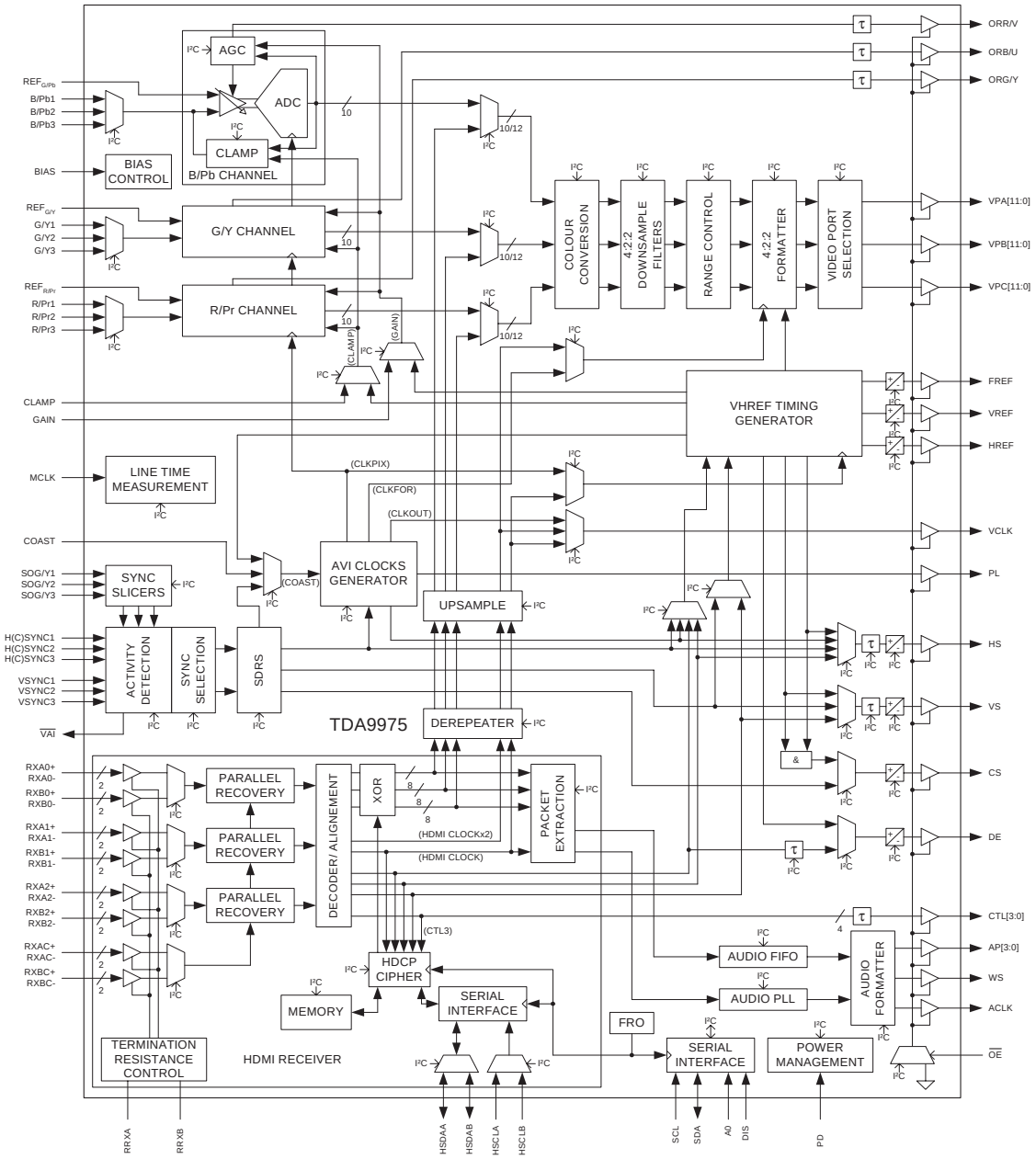
DPAK

F_15710_1

Figure 9-23 Internal block diagram and pin configuration

9.14.13 Diagram B11B & B11C, TDA9975EL (IC 7B11)

Block Diagram



Pin Configuration

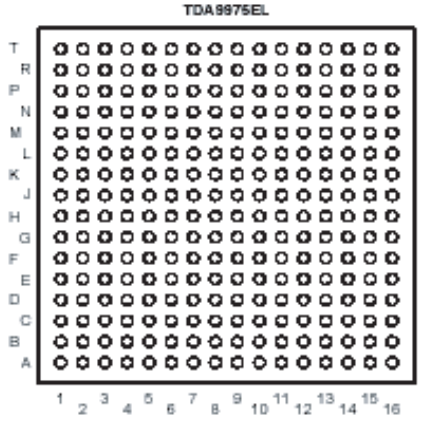


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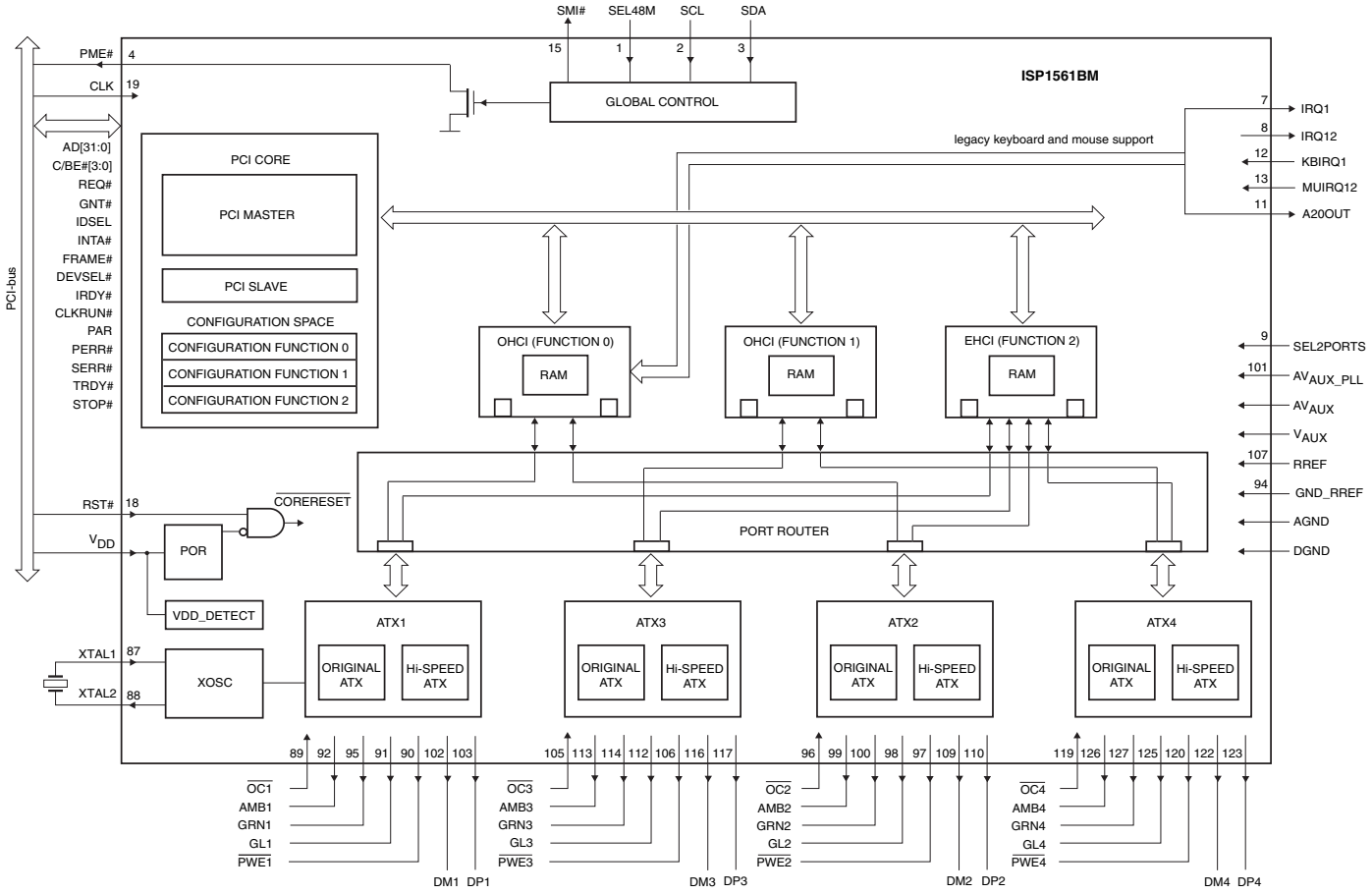
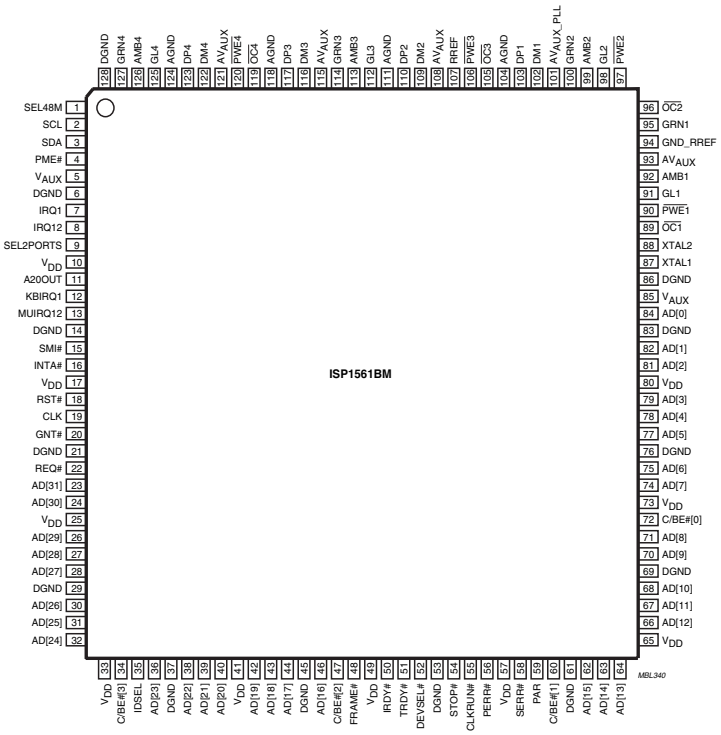
Figure 9-24 Internal block diagram and pin configuration

9.14.14 Diagram B13A, ISP1561BM (IC 7N00)

Block Diagram



Pin Configuration



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240505

Figure 9-25 Internal block diagram and pin configuration

9.14.15 Diagram B14B, PCA9554PW (IC 7I55)

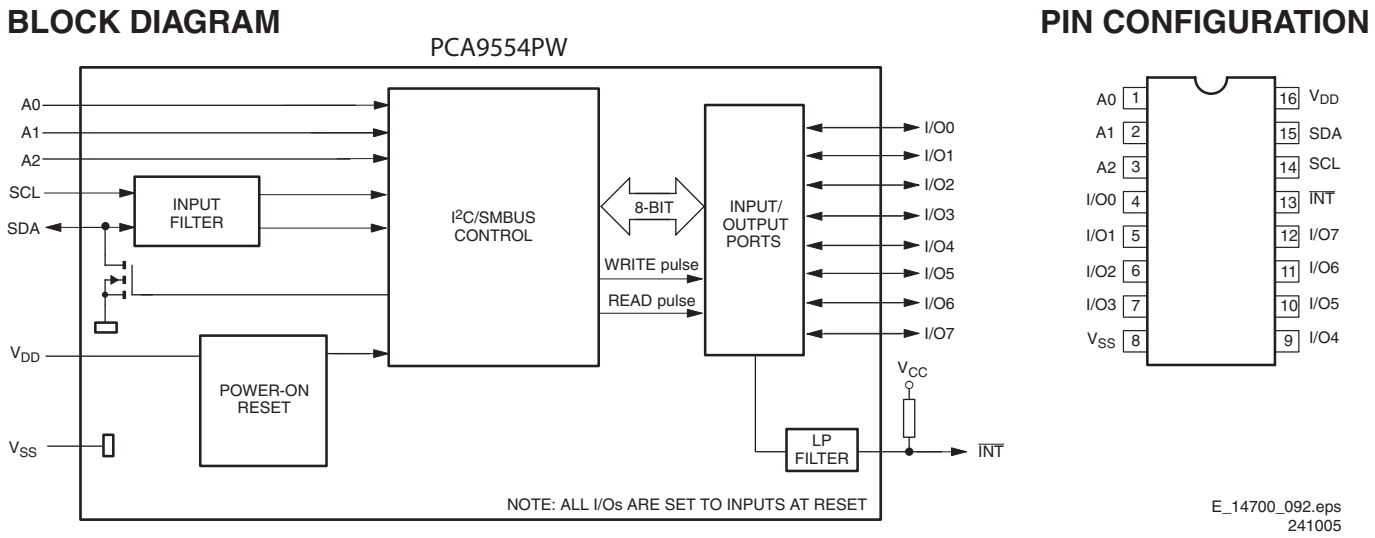


Figure 9-26 Internal block diagram and pin configuration

9.14.16 Diagram B15, DP83816AVNG (7O00)

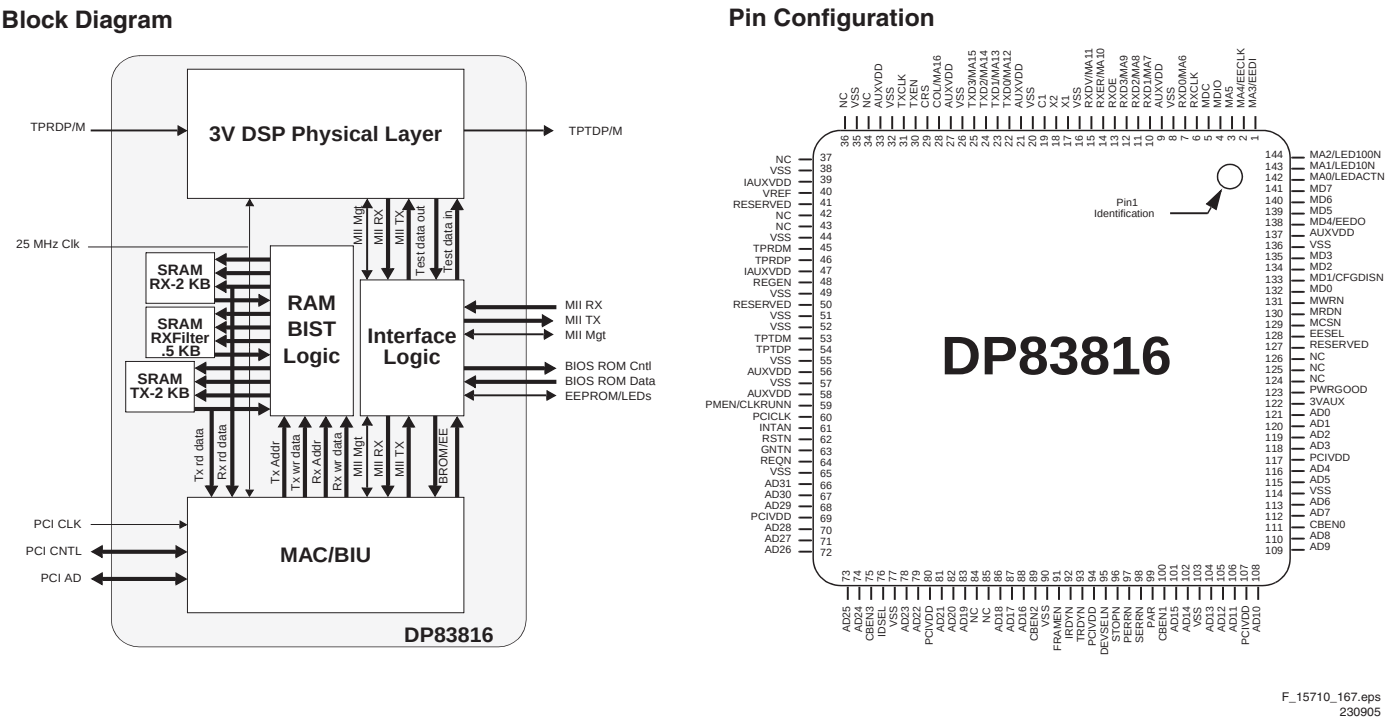
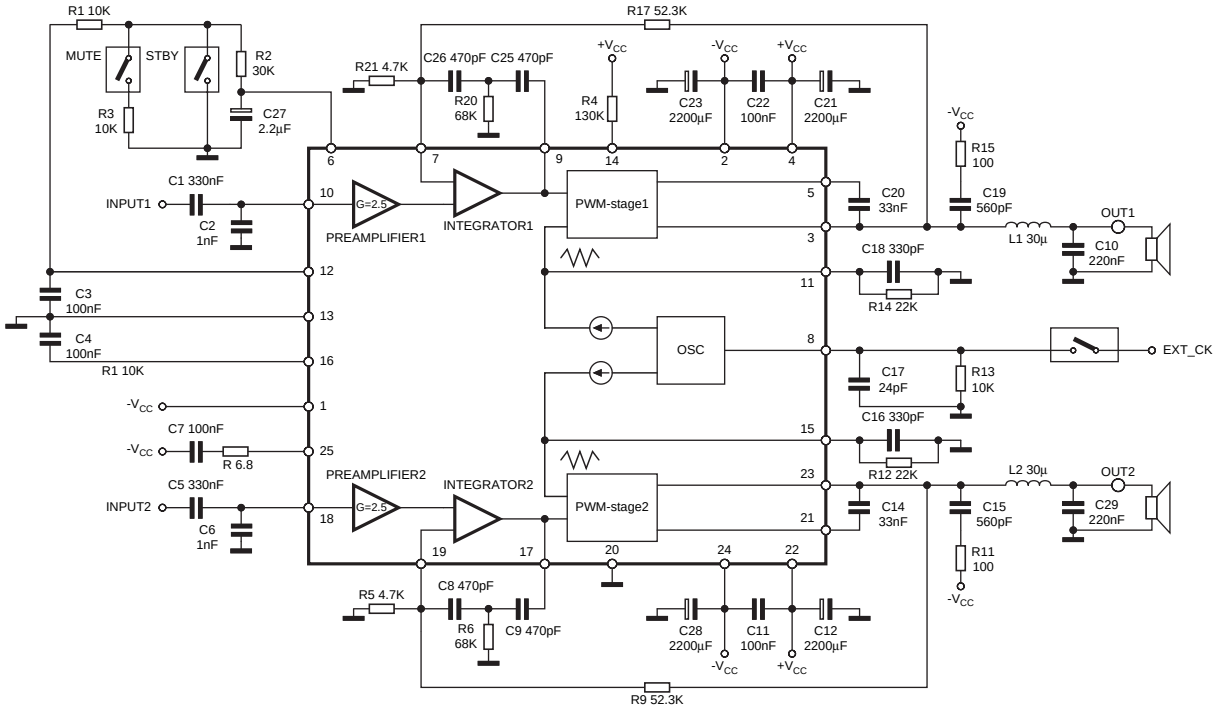


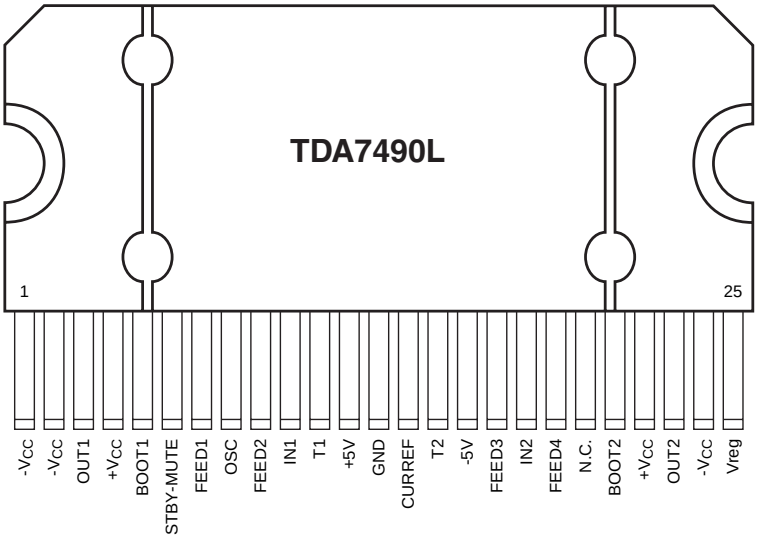
Figure 9-27 Internal block diagram and pin configuration

9.14.17 Diagram SA3, TDA7490LG (7700)

Block Diagram



Pin Configuration (Top View)

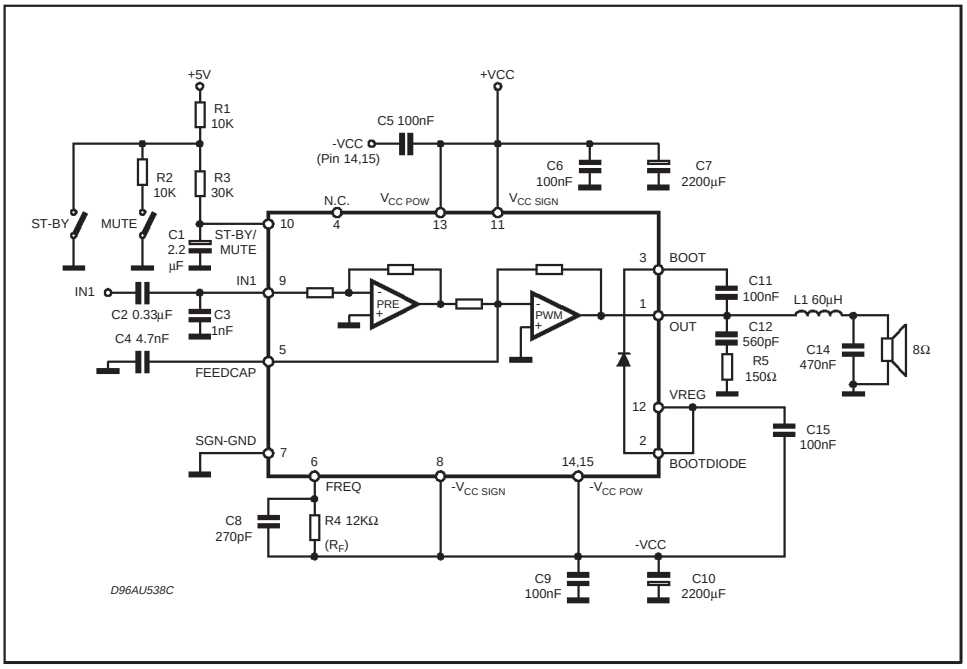


F_15710_168.eps
230905

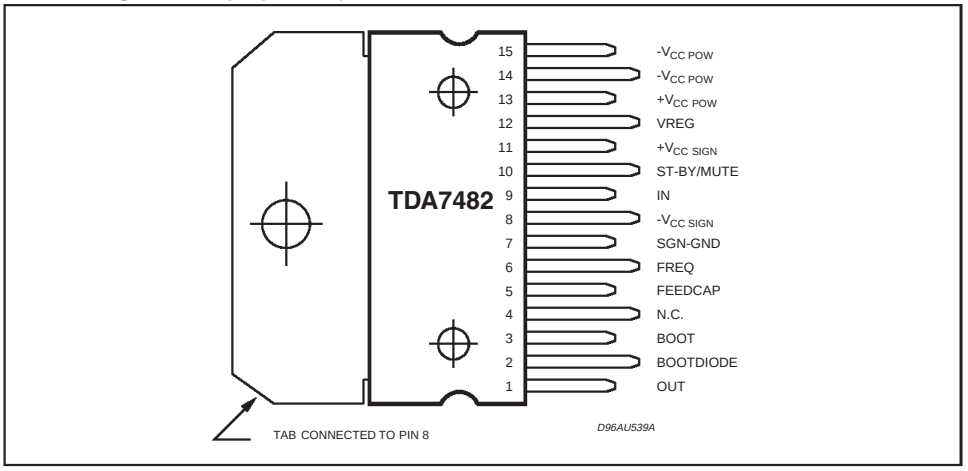
Figure 9-28 Internal block diagram and pin configuration

9.14.18 Diagram SA3, TDA7482 (7702)

Block Diagram



Pin Configuration (Top View)



F_15710_169.eps
230905

Figure 9-29 Internal block diagram and pin configuration

10. Spare Parts List

Sets Listed

	8670 000 23287	32PF9631D10
	8670 000 23308	42PF9831D/10
	8670 000 23603	42PF9631/69

Set Level

Various

1004▲	8204 000 78151	LCD LC320WX2 (LPL)
1004▲	9322 240 80682	LCD LC420WX2 (LPL)
1012	3139 267 27821	Control Assy ME6 [E]
1017	3104 328 40891	Bottom I/O Assy [BE]
1064	3104 328 40322	Double AL Inv. Assy [AL]
1066	3104 328 40322	Double AL Inv. Assy [AL]
1068	3104 328 40322	Double AL Inv. Assy [AL]
1102	See table ch. 5	Serv. SSB (incl. keys)
1110	3104 328 43111	Control Assy TOP [E]
1112	3104 328 45811	IR/LED Panel TOP [J]
1112	3139 267 24441	IR/LED Panel ME6 [J]
1115	3104 328 42511	Side I/O Assy TOP [D]
1115	3139 267 17401	Side I/O Assy ME6 [D]
1131	2722 171 00372	AL Lamp Module 580L
1132	2722 171 00373	AL Lamp Module 580R
1133	2722 171 00369	AL Lamp Module 500L
1134	2722 171 00371	AL Lamp Module 500R
1135	2722 171 00369	AL Lamp Module 500L
1136	2722 171 00371	AL Lamp Module 500R
1151	3104 328 35441	Card Reader Assy
1152	3104 328 44921	Platform Supply Assy 42"
1180	2722 171 00364	PSU Module 117/230V
8000	3104 311 11831	Cable 5p/820/5p Bk Ferr.
8101	3104 311 10171	Cable 3p/1000/3p
8103	3104 311 06091	Cable 10p/680/10p
8103	3104 311 07391	Cable 10p/220/10p
8121▲	3104 311 06841	Cable 6p/820/6p
8121▲	3104 311 07831	Cable 6p/820/6p Wh
8136▲	3104 311 07471	Cable 11p/680/11p
8136	3104 311 10541	Cable 11p/1100/11p Wh
8142	3104 311 09051	Cable 5p/820/5p Wh
8142	3104 311 11371	Cable 5p/820/5p Wh
8146	3104 311 07951	Cable 11p/680/11p
8146	3104 311 08621	Cable 11p/220/11p
8150	3104 311 11681	Cable 41p/320/30p
8150	8204 000 78713	Cable 41p/320/30p
8199	3104 311 08251	Wire ring/180/Pos 4.8
8201	2422 076 00596	Cable USB-A 4p
8302	3104 311 00801	Cable 7p/220/7p
8302	3104 311 02341	Cable 7p/680/7p
8305▲	3104 311 00891	Cable 3p/220/3p
8306	3104 311 08361	Cable 2p3/400/2p3
8310	3104 311 10284	Cable 2p3/280/2p3
8364	3104 311 06061	Cable 9p/180/9p
8402	3104 311 11391	Cable 2p3/820/2p3 Bk
8408▲	3104 311 07691	Cable 2p3/280/Inlet
8410	3104 311 11441	Cable 10p/820/10p
8422▲	3104 311 11381	Cable 2p3/680/2p3 Wh
8510	3104 311 06841	Cable 6p/820/6p
8539	3104 311 06551	Cable 3p/1300/3p
8549	3104 311 11801	Cable 4p/1300/4p Bk
8608	3104 311 06941	Cable 6p/680/6p
8610	3104 311 11011	Cable 6p/1k3/6p Wh
8735	3104 311 02241	Cable Bk 2p3/820/2xPos
8735	3104 311 11271	Cable 2p3/560/2X Bk
8736	3104 311 06271	Cable Wh 2p3/560/2xPos
8736	3104 311 11201	Cable 2p3/820/2X Wh
8911	3104 311 08731	Cable POSI/100/POSI

5212	2422 264 00565	Loudsp. 4Ω 15W Tweet.
5213	2422 264 00565	Loudsp. 4Ω 15W Tweet.
5222	2422 264 00572	Loudsp. 4Ω 15W Squa.
5222	2422 264 00592	Loudsp. Box 5Ω 15W
5223	2422 264 00572	Loudsp. 4Ω 15W Squa.
5223	2422 264 00592	Loudsp. Box 5Ω 15W
5224	3141 130 00171	Ldsp. Box 10Ω 13W Sub.

LCD Supply 32" [A]

Various

1007▲	2422 086 00678	Fuse 5A T 250V
1305	4822 267 10735	Connector 3p
1306▲	2422 025 16374	Connector 2p m
1308	4822 265 20723	Connector 2p
1310	4822 265 20723	Connector 2p
1400▲	4822 253 50145	Fuse 3.15A T
1402	4822 252 60151	Surge protect
1410	4822 265 11253	Fuse holder
1411	4822 265 11253	Fuse holder
1450▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m
1M08	2422 025 08149	Connector 6p m
1M64	2422 025 10769	Connector 9p m

2000	2022 554 04157	1.5NF 250V 20%
2002	4822 124 11767	470µF 20% 25V
2003	4822 124 80061	1000µF 20% 25V
2007	4822 126 14583	470nF 10% 16V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	2238 867 18101	100pF 1% 50V 0603
2010	4822 124 40207	100µF 20% 25V
2011	2222 375 24153	15nF 5% 1kV
2012	4822 126 13449	1nF 10% 2kV
2013	4822 126 13449	1nF 10% 2kV
2014▲	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2017	2222 375 24153	15nF 5% 1kV
2019	5322 126 11583	10nF 10% 50V 0603
2020	4822 124 12285	2200µF 20% 16V
2021	4822 124 12285	2200µF 20% 16V
2022	2020 024 90708	47µF 400V 20%
2023	4822 126 14583	470nF 10% 16V 0805
2024	2020 552 96326	220nF 10% 16V
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2032	4822 126 10206	2.2nF 10% 500V
2034	2238 867 18101	100pF 1% 50V 0603
2035	2238 867 18101	100pF 1% 50V 0603
2038	2020 024 90708	47µF 400V 20%
2039	4822 126 14583	470nF 10% 16V 0805
2040	4822 126 14249	560pF 10% 50V 0603
2044	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2066	4822 122 31211	100pF 10% 500V
2067	4822 122 31211	100pF 10% 500V
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2291	4822 126 13881	470pF 5% 50V
2292	4822 124 40784	3300µF 20% 16V
2293	4822 126 13881	470pF 5% 50V
2294	4822 124 40784	3300µF 20% 16V
2400▲	2222 338 22474	470nF 20% 275V
2407▲	2022 554 04155	470pF 20% 250V
2816	2020 024 00001	330µF 20% 400V

3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 051 30393	39kΩ 5% 0.062W
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 117 12971	15Ω 5% 0603 0.62W
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3024	3198 039 47040	470kΩ 1% MFLM
3025	3198 021 31820	1.8kΩ 5% 0.062W 0603
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30332	3.3Ω 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3032	4822 051 30223	22kΩ 5% 0.062W
3033▲	4822 052 11108	1Ω 5% 0.5W
3034	4822 051 30102	1kΩ 5% 0.062W
3035	4822 051 30332	3.3Ω 5% 0.062W
3038	4822 050 22204	220kΩ 1% 0.6W
3040	3198 021 38220	8.2kΩ 5% 0.062W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3043	4822 051 30109	10Ω 5% 0.062W
3045	4822 117 12971	15Ω 5% 0603 0.62W
3046	4822 117 12971	15Ω 5% 0603 0.62W
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3051	4822 051 30103	10kΩ 5% 0.062W
3052	4822 051 30153	15kΩ 5% 0.062W
3053	4822 050 26804	680kΩ 1% 0.6W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 117 13632	100kΩ 1% 0603 0.62W
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3100	4822 051 30109	10Ω 5% 0.062W
3292	4822 051 30561	560Ω 5% 0.062W
3400▲	2122 550 00158	VDR 1mA 612V
3401▲	4822 053 21475	4.7MΩ 5% 0.5W
3402▲	4822 053 21475	4.7MΩ 5% 0.5W
3403▲	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3406	4822 051 30103	10kΩ 5% 0.062W
3408	4822 053 11223	22kΩ 5% 2W
3409	4822 051 10102	1kΩ 2% 0.25W
3410	4822 117 12925	47kΩ 1% 0.063W 0603
3999	4822 051 30222	2.2kΩ 5% 0.062W
9074	4822 051 20008	Jumper 0805
9110	4822 051 20008	Jumper 0805

5001	2422 531 02444	S13932-04Y
5002▲	2422 531 00118	Transf. 2652.0003D
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 526 10704	Bead 50 Ω at 100MHz
5026	4822 526 10704	Bead 50 Ω at 100MHz
5027	4822 526 10704	Bead 50 Ω at 100MHz
5028	4822 526 10704	Bead 50 Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5291	2422 536 01194	3.3µH 20%
5292	2422 536 01194	3.3µH 20%
5293	2422 536 01194	3.3µH 20%
5403	3104 308 21201	Line filter DTH40383H65

6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316

6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6031	9322 203 12673	BYV27-600
6032	9322 203 12673	BYV27-600
6033	9322 203 12673	BYV27-600
6034	9322 203 12673	BYV27-600
6044	9322 207 11687	STPS20L45CT
6045	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6077	9322 202 55685	BYG22D
6078	9322 202 55685	BYG22D
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6291	4822 130 11572	STPS8H100F
6293	4822 130 11572	STPS8H100F
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6465	9340 292 50135	BZG03-C200
6466	9340 292 50135	BZG03-C200
6467	9340 548 71115	PDZ33B
6506⚠	4822 130 83147	DF06M
6807⚠	9322 199 74682	GBJ6J-B15

7001	9322 108 21682	MC34067P
7002⚠	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7006	9322 192 18687	STP15NK50ZFP
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	9322 192 16685	TS2431AI
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7807⚠	9322 149 04682	TCET1102

AmbiLight Inverter Panel [AL]

Software

0801	3104 337 01552	Programmed P87 device

Various

1010	2422 086 00657	Fuse 3A 125V F SMD
1011	2422 086 00657	Fuse 3A 125V F SMD
1060	2422 543 01431	Xtal 20MHz 16pF
1M08	2422 025 08149	Connector 6p m
1M09	2422 025 09406	Connector 4p m
1M10	2422 025 08149	Connector 6p m
1M11	2422 025 19068	Connector 11p m
1M12	2422 025 09406	Connector 4p m
1M13	2422 025 19068	Connector 11p m
1M15	2422 025 19069	Connector 3p m
1M16	2422 025 19069	Connector 3p m
1M39	2422 025 10768	Connector 3p m
1M49	2422 025 18884	Connector 4p m
1M59	2422 025 19265	Connector 5p m Bk

2001	2020 012 00018	1000µF 20% 16V
2002	2238 586 59812	100nF 20% 50V 0603
2013	2238 916 15641	22nF 10% 25V 0603
2014	2238 916 15641	22nF 10% 25V 0603
2015	2238 916 15641	22nF 10% 25V 0603
2016	3198 034 01590	15pF 1% 50V 0402
2017	5322 126 11578	1nF 10% 50V 0603
2018	5322 126 11578	1nF 10% 50V 0603
2019	5322 126 11578	1nF 10% 50V 0603
2023	5322 126 11578	1nF 10% 50V 0603
2024	2238 586 59812	100nF 20% 50V 0603
2073	3198 034 01590	15pF 1% 50V 0402
2078	5322 126 11583	10nF 10% 50V 0603
2086	5322 126 11578	1nF 10% 50V 0603
2101	2020 012 00018	1000µF 20% 16V
2102	2238 586 59812	100nF 20% 50V 0603
2113	2238 916 15641	22nF 10% 25V 0603
2114	2238 916 15641	22nF 10% 25V 0603
2115	2238 916 15641	22nF 10% 25V 0603
2173	5322 126 11583	10nF 10% 50V 0603
2174	5322 126 11583	10nF 10% 50V 0603
2177	5322 126 11578	1nF 10% 50V 0603
2201	2020 552 96684	470nF 10% 25V 0805

3004	4822 051 20471	470Ω 5% 0.1W
3005	4822 051 20561	560Ω 5% 0.1W
3006	2322 762 60102	1kΩ 5% 2512
3007	2322 762 60102	1kΩ 5% 2512
3008	4822 051 20471	470Ω 5% 0.1W
3009	4822 051 20561	560Ω 5% 0.1W
3010	2322 762 60102	1kΩ 5% 2512
3011	2322 762 60102	1kΩ 5% 2512
3012	4822 051 20471	470Ω 5% 0.1W
3013	4822 051 20561	560Ω 5% 0.1W
3014	2322 762 60102	1kΩ 5% 2512
3015	2322 762 60102	1kΩ 5% 2512
3016	4822 051 30472	4.7Ω 5% 0.062W
3017	4822 051 30472	4.7Ω 5% 0.062W
3018	4822 051 30472	4.7Ω 5% 0.062W
3019	4822 051 30472	4.7Ω 5% 0.062W
3020	4822 051 30472	4.7Ω 5% 0.062W
3021	4822 051 30101	100Ω 5% 0.062W
3022	4822 051 30472	4.7Ω 5% 0.062W
3023	4822 051 30101	100Ω 5% 0.062W
3024	4822 051 30472	4.7Ω 5% 0.062W
3025	4822 051 30472	4.7Ω 5% 0.062W
3027	5322 117 13028	12kΩ 1% 0.063W 0603
3028	4822 051 30103	10kΩ 5% 0.062W
3029	4822 051 30472	4.7Ω 5% 0.062W
3030	4822 051 30472	4.7Ω 5% 0.062W
3031	4822 051 30472	4.7Ω 5% 0.062W
3032	4822 053 20105	1MΩ 5% 0.25W
3034	4822 051 30479	47Ω 5% 0.062W
3035	4822 051 30479	47Ω 5% 0.062W
3036	4822 051 30479	47Ω 5% 0.062W
3037	4822 051 30561	560Ω 5% 0.062W
3038	4822 051 30561	560Ω 5% 0.062W
3041	4822 051 30221	220Ω 5% 0.062W
3060	4822 051 20332	2.3kΩ 5% 0.1W
3061	4822 051 20332	2.3kΩ 5% 0.1W
3062	4822 051 20332	2.3kΩ 5% 0.1W
3064	4822 051 30683	68kΩ 5% 0.062W
3065	4822 051 30683	68kΩ 5% 0.062W
3104	4822 051 20471	470Ω 5% 0.1W
3105	4822 051 20561	560Ω 5% 0.1W
3106	2322 762 60102	1kΩ 5% 2512
3107	2322 762 60102	1kΩ 5% 2512
3108	4822 051 20471	470Ω 5% 0.1W
3109	4822 051 20561	560Ω 5% 0.1W
3110	2322 762 60102	1kΩ 5% 2512
3111	2322 762 60102	1kΩ 5% 2512
3112	4822 051 20471	470Ω 5% 0.1W
3113	4822 051 20561	560Ω 5% 0.1W
3114	2322 762 60102	1kΩ 5% 2512
3115	2322 762 60102	1kΩ 5% 2512
3117	4822 051 30472	4.7Ω 5% 0.062W
3118	4822 051 30472	4.7Ω 5% 0.062W
3119	4822 051 30472	4.7Ω 5% 0.062W
3120	4822 051 30472	4.7Ω 5% 0.062W
3124	4822 051 30472	4.7Ω 5% 0.062W
3125	4822 051 30472	4.7Ω 5% 0.062W
3129	4822 051 30472	4.7Ω 5% 0.062W
3130	4822 051 30472	4.7Ω 5% 0.062W
3131	4822 051 30472	4.7Ω 5% 0.062W
3132	4822 051 30479	47Ω 5% 0.062W
3133	4822 051 30479	47Ω 5% 0.062W
3134	4822 051 30479	47Ω 5% 0.062W
3136	4822 117 12925	47kΩ 1% 0.063W 0603
3137	5322 117 13028	12kΩ 1% 0.063W 0603
3150	4822 051 20332	2.3kΩ 5% 0.1W
3151	4822 051 20332	2.3kΩ 5% 0.1W
3152	4822 051 20332	2.3kΩ 5% 0.1W
3153	4822 051 30101	100Ω 5% 0.062W
3154	4822 051 30101	100Ω 5% 0.062W
3155	4822 051 30333	33kΩ 5% 0.062W
3156	4822 051 30103	10kΩ 5% 0.062W
3157	4822 051 30101	100Ω 5% 0.062W
3160	4822 051 30103	10kΩ 5% 0.062W
3161	4822 051 30101	100Ω 5% 0.062W
3162	4822 051 30101	100Ω 5% 0.062W
3163	4822 051 30101	100Ω 5% 0.062W
3164	4822 051 30333	33kΩ 5% 0.062W
3200	4822 051 10102	1kΩ 2% 0.25W
3201	4822 051 10102	1kΩ 2% 0.25W
3202	4822 051 30479	47Ω 5% 0.062W
3203	4822 051 20105	1MΩ 5% 0.1W
3204	4822 051 30103	10kΩ 5% 0.062W
3205	4822 051 30102	1kΩ 5% 0.062W
3206	4822 051 30221	220Ω 5% 0.062W
3207	4822 051 30223	22kΩ 5% 0.062W
3208	4822 051 10102	1kΩ 2% 0.25W
3209	4822 051 10102	1kΩ 2% 0.25W
3210	4822 051 30479	47Ω 5% 0.062W
3211	4822 051 20105	1MΩ 5% 0.1W
3212	4822 051 30221	220Ω 5% 0.062W
9001	4822 051 10008	Jumper 1206

5002	2422 536 00923	22µH 10% LHL10
5007	2422 536 00923	22µH 10% LHL10
5008	2422 536 00923	22µH 10% LHL10
5011	2422 549 42896	Bead 120Ω 100MHz
5014	2422 531 00128	BD21506-01
5015	2422 531 00128	BD21506-01
5016	2422 531 00128	BD21506-01
5102	2422 536 00923	22µH 10% LHL10
5107	2422 536 00923	22µH 10% LHL10
5108	2422 536 00923	22µH 10% LHL10
5114	2422 531 00128	BD21506-01
5115	2422 531 00128	BD21506-01
5116	2422 531 00128	BD21506-01
5200	2422 549 42896	Bead 120Ω 100MHz
5201	4822 526 10697	MMZ2012S601AT
5202	4822 526 10697	MMZ2012S601AT
5203	2422 549 42896	Bead 120Ω 100MHz
5204	4822 526 10697	MMZ2012S601AT
5205	4822 526 10697	MMZ2012S601AT

6000	4822 130 11397	BAS316
6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 11397	BAS316
6005	4822 130 11397	BAS316
6006	4822 130 11152	UDZ18B
6007	4822 130 11152	UDZ18B
6008	4822 130 11152	UDZ18B
6009	4822 130 11152	UDZ18B
6010	4822 130 11152	UDZ18B
6011	4822 130 11152	UDZ18B
6013	4822 130 11397	BAS316
6014	4822 130 11397	BAS316
6015	4822 130 11397	BAS316
6016	4822 130 11397	BAS316
6017	4822 130 11522	UDZ15B
6018	4822 130 11397	BAS316
6019	4822 130 11551	UDZS10B
6020	4822 130 11397	BAS316
6100	4822 130 11397	BAS316
6101	4822 130 11397	BAS316
6102	4822 130 11397	BAS316
6103	4822 130 11397	BAS316
6104	4822 130 11397	BAS316
6105	4822 130 11397	BAS316
6106	4822 130 11152	UDZ18B
6107	4822 130 11152	UDZ18B
6108	4822 130 11152	UDZ18B
6109	4822 130 11152	UDZ18B
6110	4822 130 11152	UDZ18B
6111	4822 130 11152	UDZ18B
6112	4822 130 11148	UDZ4.7B
6113	4822 130 11397	BAS316
6114	4822 130 11397	BAS316
6115	4822 130 11397	BAS316
6117	4822 130 11397	BAS316
6118	4822 130 11551	UDZS10B
6119	4822 130 11397	BAS316
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6200	4822 130 11397	BAS316
6201	4822 130 11397	BAS316
6202	4822 130 11416	PDZ6.8B
6203	4822 130 11397	BAS316
6204	4822 130 11397	BAS316
6205	4822 130 11416	PDZ6.8B
6206	9322 129 41685	BZM55-C12

7002	9322 202 58668	LD1117DT50
7009	3198 010 42310	BC847BW
7010	3198 010 42310	BC847BW
7011	3198 010 42310	BC847BW
7015	9322 214 20668	SI4946EY
7016	9322 214 20668	SI4946EY

7017	9322 214 20668	SI4946EY
7018	3198 010 42310	BC847BW
7019	3198 010 42310	BC847BW
7020	3198 010 42310	BC847BW
7109	3198 010 42310	BC847BW
7110	3198 010 42310	BC847BW
7111	3198 010 42310	BC847BW
7115	9322 214 20668	SI4946EY
7116	9322 214 20668	SI4946EY
7117	9322 214 20668	SI4946EY
7118	3198 010 42310	BC847BW
7119	3198 010 42310	BC847BW
7120	3198 010 42310	BC847BW
7130	9340 425 10115	BC857BS
7132	9340 425 10115	BC857BS
7200	9322 217 55685	FET SI2302ADS-E3
7201▲	9322 149 04682	TCET1102
7202	9322 217 55685	FET SI2302ADS-E3
7999		For SW See 0801

LCD Platform Supply 42" [AP]

Various

1F10	4822 267 10565	Connector 4p
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m
1M10	2422 025 08149	Connector 6p m
1M46	2422 025 10655	Connector 11p m
1M63	2422 025 09405	Connector 2p m
1P02	2422 025 16374	Connector 2p m
1P03	2422 086 00717	Fuse 1.6A T 250V
1P06	2422 086 00678	Fuse 5A T 250V
1P07	2422 086 00678	Fuse 5A T 250V
1P10	4822 267 10557	Connector 10p
1P22	4822 265 20723	Connector 2p
1P30	2422 086 00663	Fuse 1A T 250V

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2F00	2020 024 90753	100µF 450V 20%
2P01	2022 552 05679	1µF 10% 16V 0805
2P03	2022 552 05679	1µF 10% 16V 0805
2P04	2022 552 05679	1µF 10% 16V 0805
2P05	4822 124 81151	22µF 50V
2P06	2022 554 04154	220pF 10% 250V
2P11	2022 552 05679	1µF 10% 16V 0805
2P12	2238 586 59812	100nF 20% 50V 0603
2P13	2238 586 59812	100nF 20% 50V 0603
2P14	4822 121 70162	10nF 5% 400V
2P21	2238 586 59812	100nF 20% 50V 0603
2P22	2020 552 96683	220nF 10% 50V
2P23	5322 126 11578	1nF 10% 50V 0603
2P24	2022 552 05679	1µF 10% 16V 0805
2P25	2252 053 63221	220pF 10% 200V 0805
2P26	2020 552 96683	220nF 10% 50V
2P27	3198 038 41020	1000µF 20% 35V
2P28	3198 038 41020	1000µF 20% 35V
2P29	3198 038 41020	1000µF 20% 35V
2P30	3198 038 41020	1000µF 20% 35V
2P31	2238 586 59812	100nF 20% 50V 0603
2P33	2238 586 59812	100nF 20% 50V 0603
2P34	2020 552 96683	220nF 10% 50V
2P35	2020 552 96683	220nF 10% 50V
2P36	2238 586 59812	100nF 20% 50V 0603
2P37	2238 586 59812	100nF 20% 50V 0603
2P38	2238 586 59812	100nF 20% 50V 0603
2P39	5322 126 11583	10nF 10% 50V 0603
2P42	2252 053 63221	220pF 10% 200V 0805
2P43	2252 053 63221	220pF 10% 200V 0805
2P45	2238 586 59812	100nF 20% 50V 0603
2P47	4822 124 80061	1000µF 20% 25V
2P48	4822 124 80061	1000µF 20% 25V
2P49	4822 124 80061	1000µF 20% 25V
2P50	4822 124 80061	1000µF 20% 25V
2P53	2020 552 94427	100pF 5% 50V
2P55	2020 552 96683	220nF 10% 50V
2P57	2020 552 96683	220nF 10% 50V
2P64	2252 053 63221	220pF 10% 200V 0805
2P80	2020 552 96683	220nF 10% 50V
2S04	4822 126 13682	100pF 5% 1kV
2S06	2022 554 04154	220pF 10% 250V
2S07	3198 017 34730	47nF 16V 0603
2S13	2222 930 56627	2.2nF 10% 200V 0805
2S14	4822 124 12379	220µF 25V
2S15	2022 552 05679	1µF 10% 16V 0805
2S16	4822 124 81151	22µF 50V
2S17	4822 124 81151	22µF 50V
2S18	3198 017 34730	47nF 16V 0603
2S33	4822 124 40207	100µF 20% 25V
2S39	2022 552 05679	1µF 10% 16V 0805
2S40	4822 121 70162	10nF 5% 400V
2S41	2020 552 96683	220nF 10% 50V
2S50	2020 021 91668	2200µF 20% 10V
2S52	4822 121 70162	10nF 5% 400V
2S54	3198 017 31530	15nF 20% 50V 0603
2S56	2020 552 96683	220nF 10% 50V

⊣WW⊢

3999	4822 051 30472	4.7Ω 5% 0.062W
3F01	2322 251 41229	22Ω 5% 5W RMW05L
3F02	2322 251 41229	22Ω 5% 5W RMW05L
3F05	3198 012 24730	47kΩ 5%
3F06	3198 012 24730	47kΩ 5%
3P00	4822 117 10833	10kΩ 1% 0.1W
3P01	4822 117 10833	10kΩ 1% 0.1W
3P02	4822 117 10833	10kΩ 1% 0.1W
3P03	4822 117 10833	10kΩ 1% 0.1W
3P04	2322 734 63309	33Ω 1% 0.1W 0805
3P05	4822 051 30223	22kΩ 5% 0.062W
3P08	2322 193 14477	0.47Ω 5%
3P09	4822 051 30223	22kΩ 5% 0.062W
3P10	4822 051 30223	22kΩ 5% 0.062W
3P11	4822 117 13632	100kΩ 1% 0603 0.62W
3P12	4822 051 30474	470kΩ 5% 0.062W
3P13	4822 117 12925	47kΩ 1% 0.063W 0603
3P14	4822 117 12925	47kΩ 1% 0.063W 0603
3P15	4822 051 30102	1kΩ 5% 0.062W
3P16	4822 051 30109	10Ω 5% 0.062W
3P17	4822 051 30223	22kΩ 5% 0.062W
3P18	4822 051 30223	22kΩ 5% 0.062W
3P19	4822 117 12891	220kΩ 1%
3P20	4822 051 30103	10kΩ 5% 0.062W
3P21	4822 051 30103	10kΩ 5% 0.062W
3P22	4822 051 30474	470kΩ 5% 0.062W
3P23	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P24	4822 117 12891	220kΩ 1%
3P26	4822 051 30103	10kΩ 5% 0.062W
3P27	4822 051 30123	12kΩ 5% 0.1W
3P28	3198 012 24730	47kΩ 5%
3P29	4822 053 11471	470Ω 5% 2W
3P30	4822 117 13632	100kΩ 1% 0603 0.62W
3P31	4822 051 30102	1kΩ 5% 0.062W
3P33	4822 051 30471	47Ω 5% 0.062W
3P34	4822 051 30222	2.2kΩ 5% 0.062W
3P36	4822 051 30471	47Ω 5% 0.062W
3P38	4822 117 12925	47kΩ 1% 0.063W 0603
3P39	4822 117 12925	47kΩ 1% 0.063W 0603
3P40	4822 117 12925	47kΩ 1% 0.063W 0603
3P41	4822 117 12891	220kΩ 1%
3P42	4822 051 30222	2.2kΩ 5% 0.062W
3P43	4822 051 30222	2.2kΩ 5% 0.062W
3P44	4822 051 30222	2.2kΩ 5% 0.062W
3P45	4822 051 30105	1MΩ 5% 0.062W
3P46	4822 117 12925	47kΩ 1% 0.063W 0603
3P47	4822 051 30472	4.7Ω 5% 0.062W
3P48	2322 734 63309	33Ω 1% 0.1W 0805
3P50	4822 117 12971	15Ω 5% 0603 0.62W
3P51	4822 117 13632	100kΩ 1% 0603 0.62W
3P52	4822 051 30103	10kΩ 5% 0.062W
3P53	4822 051 30223	22kΩ 5% 0.062W
3P54	4822 051 30103	10kΩ 5% 0.062W
3P55	4822 051 30331	330Ω 5% 0.062W
3P59	4822 051 30102	1kΩ 5% 0.062W
3P60	2322 193 14477	0.47Ω 5%
3P61	4822 051 30471	47Ω 5% 0.062W
3P62	4822 051 30102	1kΩ 5% 0.062W
3P63	4822 051 30102	1kΩ 5% 0.062W
3P64	4822 117 12925	47kΩ 1% 0.063W 0603
3P65	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P66	5322 117 13046	1.8kΩ 1% 0.063W 0603
3P68	4822 051 30223	22kΩ 5% 0.062W
3P70	4822 051 30223	22kΩ 5% 0.062W
3P71	4822 051 30102	1kΩ 5% 0.062W
3P72	4822 051 30334	330kΩ 5% 0.062W
3P73	4822 051 30223	22kΩ 5% 0.062W
3P74	4822 051 30223	22kΩ 5% 0.062W
3P75	4822 051 30472	4.7Ω 5% 0.062W
3P76	4822 117 12891	220kΩ 1%
3P77	2322 193 14332	3.3kΩ 5% 1W
3P78	4822 051 30472	4.7Ω 5% 0.062W
3P79	4822 051 30272	2.7kΩ 5% 0.062W
3P80	4822 051 30272	2.7kΩ 5% 0.062W
3P81	4822 051 30223	22kΩ 5% 0.062W
3P82	4822 051 30222	2.2kΩ 5% 0.062W
3P83	4822 051 30332	3.3Ω 5% 0.062W
3P84	4822 051 30332	3.3Ω 5% 0.062W
3P85	4822 051 30272	2.7kΩ 5% 0.062W
3P86	4822 051 30331	330Ω 5% 0.062W
3P87	4822 051 30222	2.2kΩ 5% 0.062W
3P88	4822 051 30102	1kΩ 5% 0.062W
3P89	4822 051 30332	3.3Ω 5% 0.062W
3P90	4822 051 30154	150kΩ 5% 0.062W
3P91	4822 051 30333	33kΩ 5% 0.062W
3P92	4822 051 30102	1kΩ 5% 0.062W
3P93	4822 117 13632	100kΩ 1% 0603 0.62W
3P94	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P96	4822 051 30222	2.2kΩ 5% 0.062W
3P97	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P98	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P99	5322 117 13046	1.8kΩ 1% 0.063W 0603
3S01	4822 051 30103	10kΩ 5% 0.062W
3S02	4822 051 30103	10kΩ 5% 0.062W
3S03	4822 051 30103	10kΩ 5% 0.062W
3S04	4822 051 30103	10kΩ 5% 0.062W
3S08	2322 193 14278	2.7Ω 5%
3S14	4822 051 30222	2.2kΩ 5% 0.062W
3S15	4822 051 30103	10kΩ 5% 0.062W
3S16	4822 051 30101	100Ω 5% 0.062W
3S17	4822 051 20479	47Ω 5% 0.1W
3S18	4822 051 30102	1kΩ 5% 0.062W
3S20	4822 117 12864	82kΩ 5% 0.6W
3S21	4822 051 30102	1kΩ 5% 0.062W
3S22	4822 051 20479	47Ω 5% 0.1W
3S23	5322 117 13053	6.8kΩ 1% 0.063W 0603
3S24	5322 117 13053	6.8kΩ 1% 0.063W 0603
3S28	3198 021 32290	22Ω 5% 0603
3S29	4822 051 30471	47Ω 5% 0.062W
3S30	4822 051 30123	12kΩ 5% 0.1W
3S31	4822 051 30124	120kΩ 5% 0.062W
3S32	4822 051 30334	330kΩ 5% 0.062W
3S33	4822 051 30333	33kΩ 5% 0.062W
3S34	4822 051 30333	33kΩ 5% 0.062W
3S35	4822 051 30472	4.7Ω 5% 0.062W
3S36	4822 051 30472	4.7Ω 5% 0.062W
3S37	4822 051 30102	1kΩ 5% 0.062W
3S39	3198 021 34780	4.7Ω 5% 0603
3S41	4822 051 30471	47Ω 5% 0.062W
3S50	3198 021 32290	22Ω 5% 0603
3S51	2322 193 14104	100kΩ 5%
3S59	4822 117 12891	220kΩ 1%
3S76	4822 051 30103	10kΩ 5% 0.062W
9P04	4822 051 20008	Jumper 0805
9P58	4822 051 20008	Jumper 0805
9P80	4822 051 20008	Jumper 0805
9P81	4822 051 20008	Jumper 0805

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5F00▲	4822 157 11523	Line filter 5mH/2A
5P00	2422 531 00131	Transf. BS25515-00
5P01	2422 531 00131	Transf. BS25515-00
5P03	4822 157 50961	22µH
5P04	4822 157 11411	Bead 80Ω at 100MHz
5P05	4822 526 10704	Bead 50 Ω at 100MHz
5P06	4822 157 11411	Bead 80Ω at 100MHz
5P07	4822 157 11411	Bead 80Ω at 100MHz
5P08	4822 526 10704	Bead 50 Ω at 100MHz
5P09▲	4822 157 11832	400UH 3A
5P10	2422 549 00169	Bead 45Ω at 100MHz
5P11	2422 549 00169	Bead 45Ω at 100MHz
5P12	2422 549 00169	Bead 45Ω at 100MHz
5P13	2422 549 00169	Bead 45Ω at 100MHz
5P16	4822 157 11411	Bead 80Ω at 100MHz
5P18	2422 535 94636	3.3µF 20%
5P19	2422 535 94636	3.3µF 20%
5P20	2422 535 94636	3.3µF 20%
5P21	2422 549 44197	Bead 220Ω at 100MHz
5P22	2422 549 44197	Bead 220Ω at 100MHz
5P23	2422 549 44197	Bead 220Ω at 100MHz
5P24	2422 549 44197	Bead 220Ω at 100MHz
5P25	4822 157 11716	Bead 30Ω at 100MHz
5P26	4822 157 11716	Bead 30Ω at 100MHz
5P27	4822 157 11716	Bead 30Ω at 100MHz
5P28	4822 157 11716	Bead 30Ω at 100MHz
5S00	3104 308 21181	BS25320-00
5S01	4822 157 11828	22µH 20% 0805
5S03	4822 526 10704	Bead 50 Ω at 100MHz
5S05	4822 157 11411	Bead 80Ω at 100MHz
5S08	4822 526 10704	Bead 50 Ω at 100MHz
5S09	4822 157 11411	Bead 80Ω at 100MHz
5S10	2422 549 43769	Bead 30Ω at 100MHz
5S11	4822 157 11411	Bead 80Ω at 100MHz
5S12	4822 526 10704	Bead 50 Ω at 100MHz
5S14	2422 549 44197	Bead 220Ω at 100MHz
5S15	2422 549 44197	Bead 220Ω at 100MHz
5S16	4822 157 11716	Bead 30Ω at 100MHz

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6P01	9322 203 12673	BYV27-600
6P02	9322 203 12673	BYV27-600
6P03	9322 208 83685	BZG05C27
6P04	9322 208 83685	BZG05C27
6P05▲	9322 227 41687	Bridge GBL06L-7000E3

6P06	9322 099 61685	BYG10J
6P07	9322 099 61685	BYG10J
6P09	4822 130 11522	UDZ15B
6P10	9322 202 75687	BYW29FP-200
6P11	9322 202 75687	BYW29FP-200
6P12	9322 202 75687	BYW29FP-200
6P13	9322 202 75687	BYW29FP-200
6P14	4822 130 11397	BAS316
6P15	4822 130 11397	BAS316
6P22	4822 130 11522	UDZ15B
6P23	4822 130 11522	UDZ15B
6P27	9322 202 55685	BYG22D
6P31	4822 130 11522	UDZ15B
6P47	9322 208 44685	BZG05C6V8
6P50	4822 130 11522	UDZ15B
6P51	4822 130 11416	PDZ6.8B
6P52	4822 130 11522	UDZ15B
6P53	4822 130 11397	BAS316
6P80	4822 130 11397	BAS316
6P81	4822 130 11152	UDZ18B
6P82	4822 130 11397	BAS316
6P83	4822 130 11397	BAS316
6P84	4822 130 11397	BAS316
6P85	4822 130 11397	BAS316
6S01	5322 130 31938	BYV27-200
6S04	9340 548 69115	PDZ27B
6S05	4822 130 11522	UDZ15B
6S07	4822 130 11572	STPS8H100F
6S09	4822 130 11522	UDZ15B
6S10	9322 102 64685	UDZ2.7B
6S11	4822 130 11397	BAS316
6S12	9322 202 55685	BYG22D
6S13	4822 130 11397	BAS316
6S30	9322 203 12673	BYV27-600
6S31	4822 130 11522	UDZ15B
6S47	9322 208 44685	BZG05C6V8
6S49	3198 020 55680	BZX384-C5V6

7P02	9322 194 26687	STP6NK60Z
7P03	9322 192 16685	TS2431AI
7P04	3198 010 42310	BC847BW
7P06	9340 219 30115	BC817-25W
7P07	3198 010 42320	BC857BW
7P09	3198 010 42310	BC847BW
7P10	3198 010 42310	BC847BW
7P11⚠	9322 149 04682	TCET1102
7P12⚠	9322 149 04682	TCET1102
7P14	9340 557 69127	PHX9NQ20T
7P15	3198 010 42310	BC847BW
7P16	9322 192 16685	TS2431AI
7P17	3198 010 42310	BC847BW
7P18	9340 436 50115	BSP030
7P19	3198 010 42310	BC847BW
7P20	9340 436 50115	BSP030
7P21	3198 010 42310	BC847BW
7P22	3198 010 42320	BC857BW
7P23	9340 436 50115	BSP030
7P24	3198 010 42320	BC857BW
7P26	9340 219 30115	BC817-25W
7P27	9352 743 34518	TEA1506AT/N1
7P38	3198 010 42310	BC847BW
7P80	3198 010 42310	BC847BW
7P81	9322 192 16685	TS2431AI
7P82	3198 010 42320	BC857BW
7S02	9322 194 26687	STP6NK60Z
7S03⚠	9322 149 04682	TCET1102
7S04	9322 192 16685	TS2431AI
7S10	9352 700 18518	TEA1533AT/N1
7S11	9340 219 30115	BC817-25W
7S31	9340 436 50115	BSP030
7S40	3198 010 42310	BC847BW

Small Signal Board [B]

Software (see Philips Service Website)

0802	Downloadable ZIP file

Various

1735	2422 025 16382	Connector 3p m
1736	4822 267 10735	Connector 3p
1738	4822 267 10565	Connector 4p
1A33	2422 086 11092	Fuse 500mA 50V F SMD
1A51	2422 549 44369	SAW 38.9MHz K9656L
1A52	2422 549 44372	SAW 38.9MHz K3953L
1B01	2422 033 00018	Connector 19p f
1B02	2422 033 00018	Connector 19p f
1C33⚠	2422 086 11092	Fuse 500mA 50V F SMD
1C51	2422 549 44369	SAW 38.9MHz K9656L
1C52	2422 549 44372	SAW 38.9MHz K3953L
1D42	2422 025 18739	Connector 5p m
1E50	2422 025 17601	Connector 40p f
1F01	2422 540 00017	Reson. 60MHz CSTCW
1F02	2422 025 18741	Connector 6p m
1G50	2422 025 18973	Conn. 41p f 0.5 smd
1H00	2422 543 01397	Xtal 27MHz 18pF
1H01	2422 025 17775	Socket USB 4p f
1I00	2422 026 04811	Sock. Cinch 3p f BkWhRd
1I01	2422 026 04811	Sock. Cinch 3p f BkWhRd
1I02	2422 026 05079	Socket Cinch 3p f
1I10	2422 025 16984	Connector 15p f
1I11	2422 026 05548	Socket phone 1p f
1LA0	2422 543 01443	Xtal 16MHz 20pF
1M01	2422 025 18738	Connector 3p m
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 18734	Connector 11p m
1M15	4822 267 10459	Connector 3p
1M21	2422 025 08149	Connector 6p m
1M36	2422 025 18735	Connector 11p m
1M46	2422 025 18735	Connector 11p m
1M59	2422 025 19265	Connector 5p m Bk
1N00	2422 543 01095	Res. 12MHz DSX840
1O00	2422 543 01398	Xtal 25MHz 18p
1O10	2422 025 18056	Jack 8p Ethernet
1P01	2422 025 19501	Socket PCMCIA H 68P f
1P01	2422 033 00364	Connector smartcard
1T03	3139 147 22181	Tuner UV1318ST/AIHN-3
1U01⚠	2422 086 00623	Fuse 3A T 125V
1U04⚠	2422 086 00623	Fuse 3A T 125V
1W05	3112 297 14831	Tuner TD1316AF/PHP-3
1W20	2422 025 18779	Connector 4p m
8235	3104 311 08801	Flex foil 40p/140/40p
8299	3104 301 08351	Cable phono/140/phono
8408⚠	3104 311 06951	Cable 2p3/180/2p

2A01	2238 787 15641	22nF 5% 16V 0402
2A02	2238 787 15641	22nF 5% 16V 0402
2A03	2238 787 15641	22nF 5% 16V 0402
2A06	2238 787 15641	22nF 5% 16V 0402
2A07	2238 787 15641	22nF 5% 16V 0402
2A08	2238 787 15641	22nF 5% 16V 0402
2A09	2238 787 15641	22nF 5% 16V 0402
2A10	2020 552 96628	10nF 10% 16V 0402
2A12	2238 787 15641	22nF 5% 16V 0402
2A13	2238 787 15641	22nF 5% 16V 0402
2A15	2238 787 15641	22nF 5% 16V 0402
2A16	2238 787 15641	22nF 5% 16V 0402
2A17	2238 787 15641	22nF 5% 16V 0402
2A18	2238 787 15641	22nF 5% 16V 0402
2A19	2238 787 15641	22nF 5% 16V 0402
2A20	2238 787 15641	22nF 5% 16V 0402
2A21	2020 004 90283	10µF 20% 10V 1206
2A22	2238 586 59812	100nF 20% 50V 0603
2A23	2238 787 15641	22nF 5% 16V 0402
2A25	4822 124 23002	10µF 16V
2A27	2238 586 59812	100nF 20% 50V 0603
2A28	2238 586 59812	100nF 20% 50V 0603
2A29	4822 124 23002	10µF 16V
2A30	2022 552 05679	1µF 10% 16V 0805
2A31	2020 552 96628	10nF 10% 16V 0402
2A33	2020 552 96628	10nF 10% 16V 0402
2A35	2238 586 59812	100nF 20% 50V 0603
2A36	2022 552 05679	1µF 10% 16V 0805
2A39	2238 586 59812	100nF 20% 50V 0603
2A40	2238 586 59812	100nF 20% 50V 0603
2A42	2022 552 05679	1µF 10% 16V 0805
2A44	2238 586 59812	100nF 20% 50V 0603
2A45	4822 124 23002	10µF 16V
2A52	4822 124 23002	10µF 16V
2A53	2020 552 96628	10nF 10% 16V 0402
2A54	2020 552 96618	1nF 10% 50V 0402
2A55	2238 586 59812	100nF 20% 50V 0603
2A56	2022 552 05679	1µF 10% 16V 0805
2A57	2020 552 96628	10nF 10% 16V 0402
2A59	3198 032 55130	10µF 20% 20V
2A60	2020 552 96628	10nF 10% 16V 0402
2A61	2022 552 05679	1µF 10% 16V 0805
2A63	2238 586 59812	100nF 20% 50V 0603
2A65	2020 552 96628	10nF 10% 16V 0402
2A67	2022 552 05679	1µF 10% 16V 0805
2A68	2022 552 05679	1µF 10% 16V 0805
2A69	2238 586 59812	100nF 20% 50V 0603
2A70	2020 552 96628	10nF 10% 16V 0402
2A71	2020 552 96628	10nF 10% 16V 0402
2A74	2020 552 96628	10nF 10% 16V 0402
2A81	2022 552 05679	1µF 10% 16V 0805
2A82	2238 586 59812	100nF 20% 50V 0603
2A84	2022 552 05679	1µF 10% 16V 0805
2A85	4822 126 14324	33pF 5% 50V 0402
2A88	2238 586 59812	100nF 20% 50V 0603
2A89	2238 586 59812	100nF 20% 50V 0603
2A90	2022 552 05679	1µF 10% 16V 0805
2A91	4822 126 14324	33pF 5% 50V 0402
2A92	4822 126 14324	33pF 5% 50V 0402
2A93	2238 586 59812	100nF 20% 50V 0603
2A96	2022 552 05679	1µF 10% 16V 0805
2A97	2022 552 05679	1µF 10% 16V 0805
2A98	4822 126 14324	33pF 5% 50V 0402
2A99	4822 126 14324	33pF 5% 50V 0402
2B00	2238 586 59812	100nF 20% 50V 0603
2B01	2238 586 59812	100nF 20% 50V 0603
2B04	2238 586 59812	100nF 20% 50V 0603
2B05	2238 586 59812	100nF 20% 50V 0603
2B07	3198 034 01580	1.5pF 1% 50V 0402
2B08	2238 869 15109	10pF 5% 50V 0402
2B09	3198 034 01580	1.5pF 1% 50V 0402
2B10	2238 869 15109	10pF 5% 50V 0402
2B11	2020 552 96628	10nF 10% 16V 0402
2B14	3198 034 01580	1.5pF 1% 50V 0402
2B15	2238 869 15109	10pF 5% 50V 0402
2B16	3198 034 01580	1.5pF 1% 50V 0402
2B17	2238 869 15109	10pF 5% 50V 0402
2B20	3198 034 01580	1.5pF 1% 50V 0402
2B21	2020 552 96628	10nF 10% 16V 0402
2B22	2020 552 96628	10nF 10% 16V 0402
2B23	2020 552 96628	10nF 10% 16V 0402
2B24	2020 552 96628	10nF 10% 16V 0402
2B25	2020 552 96628	10nF 10% 16V 0402
2B26	2020 552 96628	10nF 10% 16V 0402
2B27	2020 552 96628	10nF 10% 16V 0402
2B28	2020 552 96628	10nF 10% 16V 0402
2B29	2020 552 96628	10nF 10% 16V 0402
2B30	2020 552 96628	10nF 10% 16V 0402
2B31	2020 552 96628	10nF 10% 16V 0402
2B32	2238 869 15109	10pF 5% 50V 0402
2B33	3198 034 01580	1.5pF 1% 50V 0402
2B34	2238 869 15109	10pF 5% 50V 0402
2B35	2020 552 96628	10nF 10% 16V 0402
2B36	2020 552 96628	10nF 10% 16V 0402
2B38	2022 552 05679	1µF 10% 16V 0805
2B39	2020 004 00003	330µF 20% 6.3V
2B39	2022 009 00703	330µF 20% 6.3V
2B40	2238 586 59812	100nF 20% 50V 0603
2B41	2238 586 59812	100nF 20% 50V 0603
2B42	2238 586 59812	100nF 20% 50V 0603
2B49	2238 586 59812	100nF 20% 50V 0603
2B51	2238 586 59812	100nF 20% 50V 0603
2B52	2238 586 59812	100nF 20% 50V 0603
2B53	2238 586 59812	100nF 20% 50V 0603
2B62	2238 586 59812	100nF 20% 50V 0603
2B64	2238 586 59812	100nF 20% 50V 0603
2B67	4822 124 81058	47µF 20% 4V
2B69	2238 586 59812	100nF 20% 50V 0603
2B77	2238 586 59812	100nF 20% 50V 0603
2B79	2238 586 59812	100nF 20% 50V 0603
2B80	2238 586 59812	100nF 20% 50V 0603
2B81	2238 586 59812	100nF 20% 50V 0603
2B89	5322 126 11583	10nF 10% 50V 0603
2B90	4822 124 81058	47µF 20% 4V
2B92	2238 586 59812	100nF 20% 50V 0603
2BA0	2020 552 96628	10nF 10% 16V 0402
2BA1	3198 035 14720	4.7nF 5% 25V 0402
2BA2	2020 552 96628	10nF 10% 16V 0402
2BA3	3198 035 14720	4.7nF 5% 25V 0402
2C01	2238 787 15641	22nF 5% 16V 0402
2C02	2238 787 15641	22nF 5% 16V 0402
2C03	2238 787 15641	22nF 5% 16V 0402
2C06	2238 787 15641	22nF 5% 16V 0402
2C07	2238 787 15641	22nF 5% 16V 0402
2C08	2238 787 15641	22nF 5% 16V 0402
2C09	2238 787 15641	22nF 5% 16V 0402
2C12	2238 787 15641	22nF 5% 16V 0402
2C13	2238 787 15641	22nF 5% 16V 0402
2C15	2238 787 15641	22nF 5% 16V 0402
2C16	2238 787 15641	22nF 5% 16V 0402
2C17	2238 787 15641	22nF 5% 16V 0402
2C18	2238 787 15641	22nF 5% 16V 0402
2C19	2238 787 15641	22nF 5% 16V 0402
2C20	2238 787 15641	22nF 5% 16V 0402
2C21	2020 004 90283	10µF 20% 10V 1206
2C22	2238 586 59812	100nF 20% 50V 0603
2C23	2238 787 15641	22nF 5% 16V 0402
2C25	2020 004 90283	10µF 20% 10V 1206
2C27	2238 586 59812	100nF 20% 50V 0603
2C28	2238 586 59812	100nF 20% 50V 0603
2C31	2238 586 59812	100nF 20% 50V 0603
2C32	4822 124 12108	100µF 20% 4V
2C35	2238 586 59812	100nF 20% 50V 0603
2C36	2022 552 05679	1µF 10% 16V 0805
2C39	2238 586 59812	100nF 20% 50V 0603
2C40	2238 586 59812	100nF 20% 50V 0603
2C41	2020 552 96618	1nF 10% 50V 0402
2C42	2022 552 05679	1µF 10% 16V 0805

2C44	2238 586 59812	100nF 20% 50V 0603
2C45	4822 124 23002	10µF 16V
2C46	2022 552 05679	1µF 10% 16V 0805
2C47	2238 586 59812	100nF 20% 50V 0603
2C48	2022 552 05679	1µF 10% 16V 0805
2C49	2022 552 05679	1µF 10% 16V 0805
2C52	4822 124 23002	10µF 16V
2C53	2020 552 96628	10nF 10% 16V 0402
2C55	2238 586 59812	100nF 20% 50V 0603
2C56	2022 552 05679	1µF 10% 16V 0805
2C57	2020 552 96628	10nF 10% 16V 0402
2C59	4822 124 23002	10µF 16V
2C60	2020 552 96628	10nF 10% 16V 0402
2C61	2020 552 96628	10nF 10% 16V 0402
2C62	2020 552 96628	10nF 10% 16V 0402
2C63	2238 586 59812	100nF 20% 50V 0603
2C65	2020 552 96628	10nF 10% 16V 0402
2C67	2022 552 05679	1µF 10% 16V 0805
2C68	2022 552 05679	1µF 10% 16V 0805
2C69	2238 586 59812	100nF 20% 50V 0603
2C70	2020 552 96628	10nF 10% 16V 0402
2C72	2020 552 96618	1nF 10% 50V 0402
2C73	4822 124 23002	10µF 16V
2C74	2020 552 96628	10nF 10% 16V 0402
2C78	2022 552 05679	1µF 10% 16V 0805
2C79	2022 552 05679	1µF 10% 16V 0805
2C82	2020 552 96628	10nF 10% 16V 0402
2C84	3198 035 02210	220pF 5% 50V 0402
2C85	4822 126 14524	68pF 5% 50V 0402
2C86	3198 034 03380	3.3pF 1% 50V 0402
2C99	2022 552 05679	1µF 10% 16V 0805
2D00	2020 021 00213	220µF 25V 20%
2D01	2020 021 00213	220µF 25V 20%
2D02	2020 021 00213	220µF 25V 20%
2D03	2020 021 00213	220µF 25V 20%
2D04	2020 552 96628	10nF 10% 16V 0402
2D05	2020 552 96628	10nF 10% 16V 0402
2D06	3198 034 02280	2.2pF 1% 50V 0402
2D06	3198 034 04780	4.7pF 50V NP0 0402
2D07	3198 034 02280	2.2pF 1% 50V 0402
2D07	3198 034 04780	4.7pF 50V NP0 0402
2D08	3198 034 04780	4.7pF 50V NP0 0402
2D09	2238 869 15101	100pF 5% 50V 0402
2D10	2022 552 05615	2.2µF 10% 6.3V 0805
2D10	2250 200 13667	2.2µF 10% 6.3V 0805
2D11	2020 552 96618	1nF 10% 50V 0402
2D12	2238 869 15101	100pF 5% 50V 0402
2D13	2020 552 96684	470nF 10% 25V 0805
2D13	2020 552 96828	470nF 20% 25V
2D15	2020 552 96684	470nF 10% 25V 0805
2D15	2020 552 96828	470nF 20% 25V
2D17	3198 034 02280	2.2pF 1% 50V 0402
2D17	3198 034 04780	4.7pF 50V NP0 0402
2D18	2238 586 59812	100nF 20% 50V 0603
2D19	2222 580 15649	100nF 10% 50V 0805
2D20	2020 552 96684	470nF 10% 25V 0805
2D20	2020 552 96828	470nF 20% 25V
2D21	2020 552 96684	470nF 10% 25V 0805
2D21	2020 552 96828	470nF 20% 25V
2D22	2238 586 59812	100nF 20% 50V 0603
2D23	2238 586 59812	100nF 20% 50V 0603
2D24	2020 552 96621	1.5nF 10% 50V 0402
2D25	2020 552 96628	10nF 10% 16V 0402
2D25	5322 126 11583	10nF 10% 50V 0603
2D26	2020 552 96628	10nF 10% 16V 0402
2D26	5322 126 11583	10nF 10% 50V 0603
2D27	2020 552 96621	1.5nF 10% 50V 0402
2D28	2020 552 96621	1.5nF 10% 50V 0402
2D29	2020 552 96621	1.5nF 10% 50V 0402
2D30	2020 552 96621	1.5nF 10% 50V 0402
2D31	3198 034 02280	2.2pF 1% 50V 0402
2D31	3198 034 04780	4.7pF 50V NP0 0402
2D32	2020 552 96621	1.5nF 10% 50V 0402
2D33	2222 580 15649	100nF 10% 50V 0805
2D34	2238 586 59812	100nF 20% 50V 0603
2D35	2020 552 96684	470nF 10% 25V 0805
2D35	2020 552 96828	470nF 20% 25V
2D37	3198 034 04780	4.7pF 50V NP0 0402
2D38	2020 552 96684	470nF 10% 25V 0805
2D38	2020 552 96828	470nF 20% 25V
2D40	2022 552 05679	1µF 10% 16V 0805
2D41	2022 552 05679	1µF 10% 16V 0805
2D42	2020 552 96621	1.5nF 10% 50V 0402
2D43	2020 552 96621	1.5nF 10% 50V 0402
2D44	2020 552 96621	1.5nF 10% 50V 0402
2D45	2020 552 96621	1.5nF 10% 50V 0402
2D46	5322 126 11583	10nF 10% 50V 0603
2D47	2238 586 59812	100nF 20% 50V 0603
2D48	2238 586 59812	100nF 20% 50V 0603
2D49	2238 586 59812	100nF 20% 50V 0603
2D50	2020 552 96828	470nF 20% 25V
2D52	2020 552 96828	470nF 20% 25V
2D54	3198 034 04780	4.7pF 50V NP0 0402
2D55	2238 586 59812	100nF 20% 50V 0603
2D56	2222 580 15649	100nF 10% 50V 0805
2D57	2020 552 96683	220nF 10% 50V
2D58	2020 552 96683	220nF 10% 50V
2D59	2238 586 59812	100nF 20% 50V 0603
2D60	2238 586 59812	100nF 20% 50V 0603
2D61	2020 552 96621	1.5nF 10% 50V 0402
2D62	2238 916 15641	22nF 10% 25V 0603
2D63	2238 916 15641	22nF 10% 25V 0603
2D64	2020 552 96621	1.5nF 10% 50V 0402
2D65	2020 552 96621	1.5nF 10% 50V 0402
2D66	2020 552 96621	1.5nF 10% 50V 0402
2D67	2020 552 96621	1.5nF 10% 50V 0402
2D68	3198 034 04780	4.7pF 50V NP0 0402
2D69	2020 552 96621	1.5nF 10% 50V 0402
2D70	2222 580 15649	100nF 10% 50V 0805
2D71	2238 586 59812	100nF 20% 50V 0603
2D72	2020 552 96828	470nF 20% 25V
2D75	2020 552 96828	470nF 20% 25V
2D77	2022 552 05679	1µF 10% 16V 0805
2D78	2022 552 05679	1µF 10% 16V 0805
2D79	2020 552 96618	1nF 10% 50V 0402
2D80	2020 552 96618	1nF 10% 50V 0402
2D81	2020 552 96618	1nF 10% 50V 0402
2D82	2020 552 96618	1nF 10% 50V 0402
2D83	2020 021 00213	220µF 25V 20%
2D84	2020 021 00213	220µF 25V 20%
2D91	2022 552 05679	1µF 10% 16V 0805
2D92	2238 586 59812	100nF 20% 50V 0603
2D93	2022 552 05679	1µF 10% 16V 0805
2D94	3198 017 34730	47nF 16V 0603
2D95	2238 869 15101	100pF 5% 50V 0402
2DA2	2238 586 59812	100nF 20% 50V 0603
2DA3	2238 586 59812	100nF 20% 50V 0603
2DD1	2020 021 00213	220µF 25V 20%
2DD2	2020 021 00213	220µF 25V 20%
2DF1	2020 552 96628	10nF 10% 16V 0402
2DG1	2238 586 59812	100nF 20% 50V 0603
2DG2	2238 586 59812	100nF 20% 50V 0603
2DG3	2238 586 59812	100nF 20% 50V 0603
2DG4	2238 586 59812	100nF 20% 50V 0603
2DH1	2020 552 96618	1nF 10% 50V 0402
2DH2	2020 552 96618	1nF 10% 50V 0402
2DH3	2238 586 59812	100nF 20% 50V 0603
2DH6	2020 552 96628	10nF 10% 16V 0402
2DH7	2020 552 96628	10nF 10% 16V 0402
2DH8	2020 552 96628	10nF 10% 16V 0402
2DH9	2238 869 15101	100pF 5% 50V 0402
2F00	2238 869 15109	10pF 5% 50V 0402
2F01	2238 869 15109	10pF 5% 50V 0402
2F02	2238 869 15109	10pF 5% 50V 0402
2F03	2238 869 15109	10pF 5% 50V 0402
2F04	2238 869 15109	10pF 5% 50V 0402
2F05	2238 869 15109	10pF 5% 50V 0402
2F06	2238 869 15109	10pF 5% 50V 0402
2F07	2238 869 15109	10pF 5% 50V 0402
2F08	2238 869 15109	10pF 5% 50V 0402
2F09	2238 869 15109	10pF 5% 50V 0402
2F0C	2238 869 15109	10pF 5% 50V 0402
2F0D	2238 869 15109	10pF 5% 50V 0402
2F0E	2238 869 15109	10pF 5% 50V 0402
2F0F	2238 869 15109	10pF 5% 50V 0402
2F0G	2238 869 15109	10pF 5% 50V 0402
2F0H	2238 869 15109	10pF 5% 50V 0402
2F0I	2238 869 15109	10pF 5% 50V 0402
2F0J	2238 869 15109	10pF 5% 50V 0402
2F0M	2238 869 15109	10pF 5% 50V 0402
2F0N	2238 869 15109	10pF 5% 50V 0402
2F0R	2238 586 59812	100nF 20% 50V 0603
2F0S	2238 586 59812	100nF 20% 50V 0603
2F0T	2022 552 05679	1µF 10% 16V 0805
2F1H	2022 552 05679	1µF 10% 16V 0805
2F2A	2238 586 59812	100nF 20% 50V 0603
2F2B	2022 552 05679	1µF 10% 16V 0805
2F2D	2238 586 59812	100nF 20% 50V 0603
2F2I	2238 586 59812	100nF 20% 50V 0603
2F2K	2238 869 15101	100pF 5% 50V 0402
2F2L	2238 869 15101	100pF 5% 50V 0402
2F2N	2022 552 05679	1µF 10% 16V 0805
2F2P	3198 035 04710	470pF 50V 0402
2F2Q	3198 035 04710	470pF 50V 0402
2F2R	2022 552 05679	1µF 10% 16V 0805
2F30	2020 552 00141	4.7µF 10% 6.3V 0805
2F31	2020 552 96628	10nF 10% 16V 0402
2F32	2020 552 96628	10nF 10% 16V 0402
2F33	2020 552 96628	10nF 10% 16V 0402
2F34	2020 552 96628	10nF 10% 16V 0402
2F35	2020 552 96628	10nF 10% 16V 0402
2F36	2020 552 96628	10nF 10% 16V 0402
2F37	2020 552 96628	10nF 10% 16V 0402
2F38	2020 552 96628	10nF 10% 16V 0402
2F39	2020 552 96628	10nF 10% 16V 0402
2F3A	2020 552 96628	10nF 10% 16V 0402
2F3B	2020 552 96628	10nF 10% 16V 0402
2F3C	2020 552 96628	10nF 10% 16V 0402
2F3D	2238 586 59812	100nF 20% 50V 0603
2F3E	2238 586 59812	100nF 20% 50V 0603
2F3F	2022 552 05679	1µF 10% 16V 0805
2F3G	2020 552 00141	4.7µF 10% 6.3V 0805
2F3H	2020 552 96628	10nF 10% 16V 0402
2F3I	2020 552 96628	10nF 10% 16V 0402
2F3J	2020 552 96628	10nF 10% 16V 0402
2F3K	2020 552 96628	10nF 10% 16V 0402
2F3L	2020 552 96628	10nF 10% 16V 0402
2F3M	2020 552 96628	10nF 10% 16V 0402
2F3N	2020 552 96628	10nF 10% 16V 0402
2F3P	2020 552 96628	10nF 10% 16V 0402
2F3Q	2020 552 96628	10nF 10% 16V 0402
2F3R	2020 552 96628	10nF 10% 16V 0402
2F3S	2020 552 00141	4.7µF 10% 6.3V 0805
2F3T	2020 552 96628	10nF 10% 16V 0402
2F42	2020 552 96628	10nF 10% 16V 0402
2F46	2238 586 59812	100nF 20% 50V 0603
2F48	2020 552 00141	4.7µF 10% 6.3V 0805
2F49	2020 552 96628	10nF 10% 16V 0402
2F4A	2022 552 05679	1µF 10% 16V 0805
2F4B	2020 552 00141	4.7µF 10% 6.3V 0805
2F4C	2022 552 05679	1µF 10% 16V 0805
2F4D	2020 552 96628	10nF 10% 16V 0402
2F4E	2238 586 59812	100nF 20% 50V 0603
2F4F	2022 552 05679	1µF 10% 16V 0805
2F4G	2238 586 59812	100nF 20% 50V 0603
2F4J	2020 552 96628	10nF 10% 16V 0402
2F4K	2020 552 96628	10nF 10% 16V 0402
2F4L	2020 552 96628	10nF 10% 16V 0402
2F4M	2020 552 96628	10nF 10% 16V 0402
2F4N	2020 552 96628	10nF 10% 16V 0402
2F4P	2020 552 96628	10nF 10% 16V 0402
2F4Q	2020 552 96628	10nF 10% 16V 0402
2F4T	2020 552 96628	10nF 10% 16V 0402
2F4U	4822 124 81058	47µF 20% 4V
2F54	4822 124 81058	47µF 20% 4V
2F55	2020 552 00141	4.7µF 10% 6.3V 0805
2F57	2020 552 96628	10nF 10% 16V 0402
2F5D	3198 035 04710	470pF 50V 0402
2F60	4822 124 81058	47µF 20% 4V
2F61	2238 586 59812	100nF 20% 50V 0603
2F62	2238 586 59812	100nF 20% 50V 0603
2F63	2238 586 59812	100nF 20% 50V 0603
2F64	2238 586 59812	100nF 20% 50V 0603
2F65	2238 586 59812	100nF 20% 50V 0603
2F66	2238 586 59812	100nF 20% 50V 0603
2F67	2238 586 59812	100nF 20% 50V 0603
2F68	2238 586 59812	100nF 20% 50V 0603
2F69	2238 586 59812	100nF 20% 50V 0603
2F72	2238 586 59812	100nF 20% 50V 0603
2F73	2238 586 59812	100nF 20% 50V 0603
2F74	2238 586 59812	100nF 20% 50V 0603
2F75	4822 124 81058	47µF 20% 4V
2F77	2238 586 59812	100nF 20% 50V 0603
2F78	2238 586 59812	100nF 20% 50V 0603
2F79	2238 586 59812	100nF 20% 50V 0603
2F80	2238 586 59812	100nF 20% 50V 0603
2F81	2238 586 59812	100nF 20% 50V 0603
2F82	4822 124 81058	47µF 20% 4V
2F83	2238 586 59812	100nF 20% 50V 0603
2F84	2238 586 59812	100nF 20% 50V 0603
2F85	2238 586 59812	100nF 20% 50V 0603
2H01	2020 552 96618	1nF 10% 50V 0402
2H02	2238 586 59812	100nF 20% 50V 0603
2H03	2022 552 05679	1µF 10% 16V 0805
2H05	2238 869 15101	100pF 5% 50V 0402
2H06	2020 552 96618	1nF 10% 50V 0402
2H07	2020 552 96618	1nF 10% 50V 0402
2H08	3198 034 02790	47pF 1% 50V 0402
2H09	3198 034 02790	47pF 1% 50V 0402
2H12	3198 034 02790	47pF 1% 50V 0402
2I01	2238 869 15101	100pF 5% 50V 0402
2I02	2238 869 15101	100pF 5% 50V 0402
2I03	2022 552 05679	1µF 10% 16V 0805
2I04	2238 586 59812	100nF 20% 50V 0603
2I07	4822 124 12108	100µF 20% 4V
2I08	2238 586 59812	100nF 20% 50V 0603
2I09	4822 124 23002	10µF 16V
2I10	4822 124 23002	10µF 16V
2I12	2238 869 15101	100pF 5% 50V 0402
2I13	2238 869 15101	100pF 5% 50V 0402
2I18	2238 586 59812	100nF 20% 50V 0603
2I22	2238 869 15101	100pF 5% 50V 0402
2I23	2238 869 15101	100pF 5% 50V 0402
2I25	2238 869 15101	100pF 5% 50V 0402
2I26	2238 869 15101	100pF 5% 50V 0402
2I27	2238 869 15101	100pF 5% 50V 0402
2I31	2238 586 59812	100nF 20% 50V 0603
2I51	4822 126 11785	47pF 5% 50V 0603
2I52	4822 126 11785	47pF 5% 50V 0603
2I53	2238 586 59812	100nF 20% 50V 0603
2I54	2238 586 59812	100nF 20% 50V 0603
2I55	2238 586 59812	100nF 20% 50V 0603

2I56	5322 126 11578	1nF 10% 50V 0603
2I60	4822 124 12095	100µF 20% 16V
2I61	4822 124 12095	100µF 20% 16V
2I62	4822 124 80151	47µF 16V
2I80	4822 124 12095	100µF 20% 16V
2I81	4822 124 12095	100µF 20% 16V
2I83	4822 124 80151	47µF 16V
2I90	2022 552 05679	1µF 10% 16V 0805
2J01	2238 586 59812	100nF 20% 50V 0603
2J03	2238 586 59812	100nF 20% 50V 0603
2J05	2238 586 59812	100nF 20% 50V 0603
2J06	2238 586 59812	100nF 20% 50V 0603
2J08	2238 586 59812	100nF 20% 50V 0603
2J10	2238 586 59812	100nF 20% 50V 0603
2J13	2238 586 59812	100nF 20% 50V 0603
2J16	2238 586 59812	100nF 20% 50V 0603
2J18	2238 586 59812	100nF 20% 50V 0603
2J20	2238 586 59812	100nF 20% 50V 0603
2J22	3198 035 03320	3.3nF 5% 50V 0402
2J23	3198 035 03320	3.3nF 5% 50V 0402
2J24	3198 035 03320	3.3nF 5% 50V 0402
2J25	3198 035 03320	3.3nF 5% 50V 0402
2K38	2022 552 05679	1µF 10% 16V 0805
2K39	2022 552 05679	1µF 10% 16V 0805
2K40	2238 586 59812	100nF 20% 50V 0603
2K41	2238 586 59812	100nF 20% 50V 0603
2K42	3198 032 47170	47µF 20% 16V
2K43	2238 586 59812	100nF 20% 50V 0603
2K45	2238 586 59812	100nF 20% 50V 0603
2K58	2022 552 05679	1µF 10% 16V 0805
2K60	2022 552 05679	1µF 10% 16V 0805
2K61	2022 552 05679	1µF 10% 16V 0805
2K63	2022 552 05679	1µF 10% 16V 0805
2K67	2022 552 05679	1µF 10% 16V 0805
2K68	2022 552 05679	1µF 10% 16V 0805
2K69	2022 552 05679	1µF 10% 16V 0805
2K70	2022 552 05679	1µF 10% 16V 0805
2K71	2022 552 05679	1µF 10% 16V 0805
2K72	2022 552 05679	1µF 10% 16V 0805
2K73	2022 552 05679	1µF 10% 16V 0805
2K74	2022 552 05679	1µF 10% 16V 0805
2K75	2022 552 05679	1µF 10% 16V 0805
2K76	2022 552 05679	1µF 10% 16V 0805
2K77	2022 552 05679	1µF 10% 16V 0805
2L02	2238 586 59812	100nF 20% 50V 0603
2L03	2238 586 59812	100nF 20% 50V 0603
2L04	2020 552 96618	1nF 10% 50V 0402
2L06	2238 787 15641	22nF 5% 16V 0402
2L07	2238 586 59812	100nF 20% 50V 0603
2L08	2238 869 15101	100pF 5% 50V 0402
2L09	2238 586 59812	100nF 20% 50V 0603
2L10	2020 552 96618	1nF 10% 50V 0402
2L11	2238 869 15101	100pF 5% 50V 0402
2L12	2238 869 15101	100pF 5% 50V 0402
2L13	2238 787 15641	22nF 5% 16V 0402
2L14	2238 869 15101	100pF 5% 50V 0402
2L15	2238 787 15641	22nF 5% 16V 0402
2L16	2238 787 15641	22nF 5% 16V 0402
2L17	2238 586 59812	100nF 20% 50V 0603
2L18	2238 787 15641	22nF 5% 16V 0402
2L19	2020 552 96807	1µF 10% 10V 0603
2L20	2020 552 96807	1µF 10% 10V 0603
2L21	2020 552 96807	1µF 10% 10V 0603
2L22	2020 552 96807	1µF 10% 10V 0603
2L23	2238 787 15641	22nF 5% 16V 0402
2L50	2238 586 59812	100nF 20% 50V 0603
2L51	2238 586 59812	100nF 20% 50V 0603
2L52	2238 586 59812	100nF 20% 50V 0603
2L53	2238 586 59812	100nF 20% 50V 0603
2L54	2238 586 59812	100nF 20% 50V 0603
2L55	2238 586 59812	100nF 20% 50V 0603
2L56	2238 586 59812	100nF 20% 50V 0603
2L57	2238 586 59812	100nF 20% 50V 0603
2L58	2238 586 59812	100nF 20% 50V 0603
2L59	2238 586 59812	100nF 20% 50V 0603
2L60	2022 552 05679	1µF 10% 16V 0805
2L61	2020 552 96618	1nF 10% 50V 0402
2L62	2020 552 96618	1nF 10% 50V 0402
2L63	2238 869 15101	100pF 5% 50V 0402
2L64	2022 552 05679	1µF 10% 16V 0805
2L65	2022 552 05679	1µF 10% 16V 0805
2L66	2020 552 96618	1nF 10% 50V 0402
2L67	2020 552 96618	1nF 10% 50V 0402
2L68	2020 552 96618	1nF 10% 50V 0402
2L69	2020 552 96618	1nF 10% 50V 0402
2L70	2020 552 96618	1nF 10% 50V 0402
2L71	2020 552 96618	1nF 10% 50V 0402
2L72	2020 552 96618	1nF 10% 50V 0402
2L73	2238 787 15641	22nF 5% 16V 0402
2L74	2238 787 15641	22nF 5% 16V 0402
2LA0	4822 126 14519	22pF 5% 50V 0402
2LA1	4822 126 14519	22pF 5% 50V 0402
2LA2	2238 869 15109	10pF 5% 50V 0402
2LA4	2238 586 59812	100nF 20% 50V 0603
2LA5	3198 035 03320	3.3nF 5% 50V 0402
2LA6	3198 035 03320	3.3nF 5% 50V 0402
2LA7	3198 035 03320	3.3nF 5% 50V 0402
2LA8	3198 035 03320	3.3nF 5% 50V 0402
2LA9	3198 035 03320	3.3nF 5% 50V 0402
2LB0	2238 586 59812	100nF 20% 50V 0603
2LB1	2238 586 59812	100nF 20% 50V 0603
2LB3	2020 552 96618	1nF 10% 50V 0402
2LB4	2238 586 59812	100nF 20% 50V 0603
2LC0	4822 124 12108	100µF 20% 4V
2LC1	2022 552 05679	1µF 10% 16V 0805
2LC2	4822 124 12108	100µF 20% 4V
2LC3	2022 552 05679	1µF 10% 16V 0805
2LC4	2238 787 15641	22nF 5% 16V 0402
2LC5	2238 787 15641	22nF 5% 16V 0402
2LC6	2238 787 15641	22nF 5% 16V 0402
2LC7	2238 787 15641	22nF 5% 16V 0402
2LC8	2020 552 96628	10nF 10% 16V 0402
2LC9	2238 869 15101	100pF 5% 50V 0402
2LD0	2020 552 96628	10nF 10% 16V 0402
2LD1	2020 552 96618	1nF 10% 50V 0402
2LD2	2022 552 05679	1µF 10% 16V 0805
2LD3	2238 586 59812	100nF 20% 50V 0603
2LD4	4822 124 12108	100µF 20% 4V
2LD5	2020 552 96618	1nF 10% 50V 0402
2LD6	2020 552 96618	1nF 10% 50V 0402
2LD7	2020 552 96618	1nF 10% 50V 0402
2LD8	2020 552 96618	1nF 10% 50V 0402
2LD9	2020 552 96618	1nF 10% 50V 0402
2LE0	2020 552 96618	1nF 10% 50V 0402
2LE1	2022 552 05679	1µF 10% 16V 0805
2LE1	2222 780 15663	1µF 10% 0805
2LE2	2022 552 05679	1µF 10% 16V 0805
2LE2	2222 780 15663	1µF 10% 0805
2LE3	2020 552 96618	1nF 10% 50V 0402
2LE4	2238 586 59812	100nF 20% 50V 0603
2LE7	2238 787 15641	22nF 5% 16V 0402
2LF0	2020 552 96618	1nF 10% 50V 0402
2LF1	2238 787 15641	22nF 5% 16V 0402
2LF2	2020 552 96618	1nF 10% 50V 0402
2LF3	2020 552 96618	1nF 10% 50V 0402
2LF4	2238 787 15641	22nF 5% 16V 0402
2LF5	2020 552 96618	1nF 10% 50V 0402
2LF6	2020 552 96618	1nF 10% 50V 0402
2LF7	2020 552 96618	1nF 10% 50V 0402
2LF8	2022 552 05679	1µF 10% 16V 0805
2LF8	2222 780 15663	1µF 10% 0805
2LF9	2022 552 05679	1µF 10% 16V 0805
2LF9	2222 780 15663	1µF 10% 0805
2LG0	2020 552 96618	1nF 10% 50V 0402
2LG1	2238 586 59812	100nF 20% 50V 0603
2LG3	2020 552 96618	1nF 10% 50V 0402
2LG4	2020 552 96618	1nF 10% 50V 0402
2LG5	2020 552 96618	1nF 10% 50V 0402
2LG6	2020 552 96618	1nF 10% 50V 0402
2LH0	2238 869 15101	100pF 5% 50V 0402
2LH1	2020 552 96628	10nF 10% 16V 0402
2LH2	2020 552 96618	1nF 10% 50V 0402
2LH3	2020 552 96618	1nF 10% 50V 0402
2LH4	2020 552 96618	1nF 10% 50V 0402
2LH5	2020 552 96618	1nF 10% 50V 0402
2LH6	2020 552 96628	10nF 10% 16V 0402
2LH7	2238 586 59812	100nF 20% 50V 0603
2LH8	2020 552 96628	10nF 10% 16V 0402
2LJ1	2238 586 59812	100nF 20% 50V 0603
2LN3	2238 586 59812	100nF 20% 50V 0603
2LN4	2238 586 59812	100nF 20% 50V 0603
2LN5	2238 586 59812	100nF 20% 50V 0603
2LN6	2238 586 59812	100nF 20% 50V 0603
2LN7	2238 586 59812	100nF 20% 50V 0603
2LN8	2238 586 59812	100nF 20% 50V 0603
2LP2	2238 586 59812	100nF 20% 50V 0603
2LP3	2238 586 59812	100nF 20% 50V 0603
2LS5	2238 586 59812	100nF 20% 50V 0603
2LT0	2022 552 05679	1µF 10% 16V 0805
2LT1	2238 586 59812	100nF 20% 50V 0603
2LT2	2238 586 59812	100nF 20% 50V 0603
2LT3	2238 586 59812	100nF 20% 50V 0603
2LT4	2238 586 59812	100nF 20% 50V 0603
2LT5	2238 586 59812	100nF 20% 50V 0603
2LT6	2238 586 59812	100nF 20% 50V 0603
2LT7	2238 787 15641	22nF 5% 16V 0402
2LT8	2238 787 15641	22nF 5% 16V 0402
2LT9	2238 787 15641	22nF 5% 16V 0402
2M00	2020 552 96628	10nF 10% 16V 0402
2M01	2238 869 15101	100pF 5% 50V 0402
2M02	2020 552 96628	10nF 10% 16V 0402
2M03	2022 552 05679	1µF 10% 16V 0805
2M04	2020 552 96628	10nF 10% 16V 0402
2M05	2020 552 96628	10nF 10% 16V 0402
2M06	2020 552 96628	10nF 10% 16V 0402
2M07	2238 869 15101	100pF 5% 50V 0402
2M08	2238 869 15101	100pF 5% 50V 0402
2M0D	2238 869 15101	100pF 5% 50V 0402
2M0H	2238 869 15101	100pF 5% 50V 0402
2M0I	2020 552 96628	10nF 10% 16V 0402
2M0J	2238 869 15101	100pF 5% 50V 0402
2M10	2238 869 15101	100pF 5% 50V 0402
2M11	2238 787 15641	22nF 5% 16V 0402
2M12	2238 869 15101	100pF 5% 50V 0402
2M14	2022 031 00373	470µF 20% 16V
2M16	2238 869 15101	100pF 5% 50V 0402
2M17	2238 869 15101	100pF 5% 50V 0402
2M1B	2020 552 94427	100pF 5% 50V
2M1C	2020 552 94427	100pF 5% 50V
2M1D	2020 552 94427	100pF 5% 50V
2M1E	2020 552 94427	100pF 5% 50V
2M1F	2020 552 94427	100pF 5% 50V
2M1G	2020 552 94427	100pF 5% 50V
2M1H	2020 552 94427	100pF 5% 50V
2M1I	2020 552 94427	100pF 5% 50V
2M1J	2020 552 94427	100pF 5% 50V
2M1K	2020 552 94427	100pF 5% 50V
2M1N	2020 552 94427	100pF 5% 50V
2M1Q	2020 552 94427	100pF 5% 50V
2M1R	2238 586 59812	100nF 20% 50V 0603
2M1S	4822 124 11131	47µF 6.3V
2M1T	4822 124 11131	47µF 6.3V
2M40	2238 586 59812	100nF 20% 50V 0603
2M41	2238 586 59812	100nF 20% 50V 0603
2M42	2238 586 59812	100nF 20% 50V 0603
2M43	2238 586 59812	100nF 20% 50V 0603
2M44	2238 869 15101	100pF 5% 50V 0402
2M45	2238 869 15101	100pF 5% 50V 0402
2M46	2238 869 15101	100pF 5% 50V 0402
2M47	2238 869 15101	100pF 5% 50V 0402
2M48	2238 869 15101	100pF 5% 50V 0402
2M49	2238 869 15101	100pF 5% 50V 0402
2M4A	2022 552 05679	1µF 10% 16V 0805
2M4B	2022 552 05679	1µF 10% 16V 0805
2M4K	2238 586 59812	100nF 20% 50V 0603
2M4L	2022 552 05679	1µF 10% 16V 0805
2M51	2238 869 15101	100pF 5% 50V 0402
2M52	2238 869 15101	100pF 5% 50V 0402
2M53	2238 869 15101	100pF 5% 50V 0402
2M54	2238 869 15101	100pF 5% 50V 0402
2M55	2238 869 15101	100pF 5% 50V 0402
2M56	2238 869 15101	100pF 5% 50V 0402
2M57	2238 869 15101	100pF 5% 50V 0402
2M58	2238 869 15101	100pF 5% 50V 0402
2M59	2238 869 15101	100pF 5% 50V 0402
2M5A	2238 869 15101	100pF 5% 50V 0402
2M5B	2238 869 15101	100pF 5% 50V 0402
2M5C	2238 869 15101	100pF 5% 50V 0402
2M5D	2238 869 15101	100pF 5% 50V 0402
2M5E	2238 869 15101	100pF 5% 50V 0402
2M5H	4822 126 14519	22pF 5% 50V 0402
2M5I	2238 869 15101	100pF 5% 50V 0402
2M5J	2238 869 15101	100pF 5% 50V 0402
2M5K	2238 869 15101	100pF 5% 50V 0402
2M5L	2238 869 15101	100pF 5% 50V 0402
2M5N	2238 869 15101	100pF 5% 50V 0402
2M5P	2238 869 15101	100pF 5% 50V 0402
2M5Q	2238 869 15101	100pF 5% 50V 0402
2M5R	2238 869 15101	100pF 5% 50V 0402
2M5S	2238 869 15101	100pF 5% 50V 0402
2M5T	2238 869 15101	100pF 5% 50V 0402
2M5U	2238 869 15101	100pF 5% 50V 0402
2M5V	2238 869 15101	100pF 5% 50V 0402
2M6B	2022 552 05679	1µF 10% 16V 0805
2M6C	2022 552 05679	1µF 10% 16V 0805
2M6D	2238 586 59812	100nF 20% 50V 0603
2M80	2238 586 59812	100nF 20% 50V 0603
2M81	2020 552 96628	10nF 10% 16V 0402
2M82	2020 552 96628	10nF 10% 16V 0402
2M84	2020 004 90283	10µF 20% 10V 1206
2M85	2020 004 90283	10µF 20% 10V 1206
2N00	4822 126 14324	33pF 5% 50V 0402
2N01	4822 126 14324	33pF 5% 50V 0402
2N02	2238 586 59812	100nF 20% 50V 0603
2N03	2238 586 59812	100nF 20% 50V 0603
2N04	2238 586 59812	100nF 20% 50V 0603
2N05	2238 586 59812	100nF 20% 50V 0603
2N06	2238 586 59812	100nF 20% 50V 0603
2N07	2238 586 59812	100nF 20% 50V 0603
2N08	2238 586 59812	100nF 20% 50V 0603
2N09	2238 586 59812	100nF 20% 50V 0603
2N10	2238 586 59812	100nF 20% 50V 0603
2N11	2238 586 59812	100nF 20% 50V 0603
2N12	2238 586 59812	100nF 20% 50V 0603
2N13	2238 586 59812	100nF 20% 50V 0603
2N50	2238 869 15101	100pF 5% 50V 0402
2N51	2020 552 96628	10nF 10% 16V 0402
2N52	2022 552 05679	1µF 10% 16V 0805
2N53	4822 124 12108	100µF 20% 4V
2O00	4822 126 14519	22pF 5% 50V 0402
2O01	4822 126 14519	22pF 5% 50V 0402
2O02	2238 586 59812	100nF 20% 50V 0603

2O03	4822 124 23002	10µF 16V
2O04	2020 552 96618	1nF 10% 50V 0402
2O05	2020 552 96618	1nF 10% 50V 0402
2O06	2020 552 96618	1nF 10% 50V 0402
2O07	2020 552 96618	1nF 10% 50V 0402
2O10	2022 552 05679	1µF 10% 16V 0805
2O11	2238 586 59812	100nF 20% 50V 0603
2O12	2020 552 00141	4.7µF 10% 6.3V 0805
2O13	2238 586 59812	100nF 20% 50V 0603
2O14	2238 586 59812	100nF 20% 50V 0603
2O15	2238 586 59812	100nF 20% 50V 0603
2O16	2238 586 59812	100nF 20% 50V 0603
2O17	2020 552 00141	4.7µF 10% 6.3V 0805
2O18	2238 586 59812	100nF 20% 50V 0603
2O19	2238 586 59812	100nF 20% 50V 0603
2O20	2238 586 59812	100nF 20% 50V 0603
2O21	2238 586 59812	100nF 20% 50V 0603
2O22	2238 586 59812	100nF 20% 50V 0603
2O23	2238 586 59812	100nF 20% 50V 0603
2O24	2238 586 59812	100nF 20% 50V 0603
2O25	2238 586 59812	100nF 20% 50V 0603
2O26	2238 586 59812	100nF 20% 50V 0603
2O27	2238 586 59812	100nF 20% 50V 0603
2O28	2238 586 59812	100nF 20% 50V 0603
2P02	2238 586 59812	100nF 20% 50V 0603
2P03	2238 586 59812	100nF 20% 50V 0603
2P04	2238 586 59812	100nF 20% 50V 0603
2P06	2238 586 59812	100nF 20% 50V 0603
2P07	2238 586 59812	100nF 20% 50V 0603
2P09	2020 552 96618	1nF 10% 50V 0402
2P10	2238 586 59812	100nF 20% 50V 0603
2P15	2238 586 59812	100nF 20% 50V 0603
2P16	2238 586 59812	100nF 20% 50V 0603
2P18	2238 586 59812	100nF 20% 50V 0603
2P19	2238 586 59812	100nF 20% 50V 0603
2P20	2238 586 59812	100nF 20% 50V 0603
2P22	2238 586 59812	100nF 20% 50V 0603
2P23	2238 586 59812	100nF 20% 50V 0603
2P24	2020 552 96628	10nF 10% 16V 0402
2P25	2020 552 96628	10nF 10% 16V 0402
2P31	2238 586 59812	100nF 20% 50V 0603
2P32	2238 586 59812	100nF 20% 50V 0603
2P33	2238 586 59812	100nF 20% 50V 0603
2P35	2238 586 59812	100nF 20% 50V 0603
2P40	2238 586 59812	100nF 20% 50V 0603
2P41	2238 586 59812	100nF 20% 50V 0603
2P44	2020 004 90283	10µF 20% 10V 1206
2P76	2238 586 59812	100nF 20% 50V 0603
2P77	2238 586 59812	100nF 20% 50V 0603
2P80	2238 586 59812	100nF 20% 50V 0603
2P81	2238 586 59812	100nF 20% 50V 0603
2P82	2238 586 59812	100nF 20% 50V 0603
2Q00	2250 200 13672	4.7µF 10% 6.3V 0805
2Q01	2022 552 05679	1µF 10% 16V 0805
2Q01	2222 780 15663	1µF 10% 0805
2Q02	2250 200 13672	4.7µF 10% 6.3V 0805
2Q03	2022 552 05679	1µF 10% 16V 0805
2Q03	2222 780 15663	1µF 10% 0805
2Q04	2238 586 59812	100nF 20% 50V 0603
2Q05	2238 586 59812	100nF 20% 50V 0603
2Q06	2238 586 59812	100nF 20% 50V 0603
2Q07	2238 586 59812	100nF 20% 50V 0603
2Q08	2238 586 59812	100nF 20% 50V 0603
2Q09	2238 586 59812	100nF 20% 50V 0603
2Q10	2238 586 59812	100nF 20% 50V 0603
2Q11	2238 586 59812	100nF 20% 50V 0603
2Q12	2238 586 59812	100nF 20% 50V 0603
2Q13	2238 586 59812	100nF 20% 50V 0603
2Q14	2238 586 59812	100nF 20% 50V 0603
2Q15	2238 586 59812	100nF 20% 50V 0603
2Q16	2020 552 96628	10nF 10% 16V 0402
2Q17	2020 552 96628	10nF 10% 16V 0402
2Q18	2020 552 96628	10nF 10% 16V 0402
2Q19	2020 552 96628	10nF 10% 16V 0402
2Q20	2250 200 13672	4.7µF 10% 6.3V 0805
2Q21	2020 552 96628	10nF 10% 16V 0402
2Q22	2250 200 13672	4.7µF 10% 6.3V 0805
2Q23	2020 552 96628	10nF 10% 16V 0402
2Q24	2238 586 59812	100nF 20% 50V 0603
2Q25	3198 034 01290	12pF 1% 50V 0402
2Q26	2238 586 59812	100nF 20% 50V 0603
2Q27	2238 586 59812	100nF 20% 50V 0603
2Q28	2238 586 59812	100nF 20% 50V 0603
2Q29	2238 869 15101	100pF 5% 50V 0402
2Q30	2238 586 59812	100nF 20% 50V 0603
2Q31	4822 126 14249	560pF 10% 50V 0603
2Q32	2238 586 59812	100nF 20% 50V 0603
2Q33	2238 586 59812	100nF 20% 50V 0603
2Q34	2238 586 59812	100nF 20% 50V 0603
2Q35	2238 586 59812	100nF 20% 50V 0603
2Q36	2020 552 96628	10nF 10% 16V 0402
2Q37	2238 586 59812	100nF 20% 50V 0603
2Q38	2238 586 59812	100nF 20% 50V 0603
2Q39	2238 586 59812	100nF 20% 50V 0603
2Q40	2250 200 13672	4.7µF 10% 6.3V 0805
2Q41	2020 552 96628	10nF 10% 16V 0402
2Q42	2250 200 13672	4.7µF 10% 6.3V 0805
2Q43	2022 552 05679	1µF 10% 16V 0805
2Q44	2238 586 59812	100nF 20% 50V 0603
2Q45	2238 586 59812	100nF 20% 50V 0603
2Q46	2238 586 59812	100nF 20% 50V 0603
2Q47	2238 586 59812	100nF 20% 50V 0603
2Q48	2238 586 59812	100nF 20% 50V 0603
2Q49	2238 586 59812	100nF 20% 50V 0603
2Q50	2238 586 59812	100nF 20% 50V 0603
2Q51	2238 586 59812	100nF 20% 50V 0603
2Q52	2238 586 59812	100nF 20% 50V 0603
2Q53	2238 586 59812	100nF 20% 50V 0603
2Q54	2238 586 59812	100nF 20% 50V 0603
2Q55	2238 586 59812	100nF 20% 50V 0603
2Q56	2020 552 96628	10nF 10% 16V 0402
2Q57	2020 552 96628	10nF 10% 16V 0402
2Q58	2020 552 96628	10nF 10% 16V 0402
2Q59	2020 552 96628	10nF 10% 16V 0402
2Q60	2238 586 59812	100nF 20% 50V 0603
2Q61	2020 552 96618	1nF 10% 50V 0402
2Q62	2238 869 15101	100pF 5% 50V 0402
2Q63	2238 586 59812	100nF 20% 50V 0603
2Q64	2238 586 59812	100nF 20% 50V 0603
2Q65	2238 586 59812	100nF 20% 50V 0603
2Q66	2238 586 59812	100nF 20% 50V 0603
2Q67	2250 200 13672	4.7µF 10% 6.3V 0805
2Q68	2250 200 13672	4.7µF 10% 6.3V 0805
2Q69	2250 200 13672	4.7µF 10% 6.3V 0805
2Q70	2250 200 13672	4.7µF 10% 6.3V 0805
2Q71	2250 200 13672	4.7µF 10% 6.3V 0805
2Q72	2250 200 13672	4.7µF 10% 6.3V 0805
2Q73	2020 552 96628	10nF 10% 16V 0402
2Q74	2020 552 96628	10nF 10% 16V 0402
2Q75	2020 552 96628	10nF 10% 16V 0402
2Q76	2020 552 96628	10nF 10% 16V 0402
2Q77	2020 552 96628	10nF 10% 16V 0402
2Q78	2020 552 96628	10nF 10% 16V 0402
2Q79	2020 552 96628	10nF 10% 16V 0402
2Q80	2020 552 96628	10nF 10% 16V 0402
2Q82	2020 021 00215	220µF 20% 25V
2Q83	2020 021 00215	220µF 20% 25V
2R00	2238 586 59812	100nF 20% 50V 0603
2R01	2238 787 15641	22nF 5% 16V 0402
2R02	2238 787 15641	22nF 5% 16V 0402
2R03	2238 787 15641	22nF 5% 16V 0402
2R04	2238 586 59812	100nF 20% 50V 0603
2R05	2238 787 15641	22nF 5% 16V 0402
2R06	2238 586 59812	100nF 20% 50V 0603
2R07	2238 787 15641	22nF 5% 16V 0402
2R08	2238 586 59812	100nF 20% 50V 0603
2R09	2238 787 15641	22nF 5% 16V 0402
2R10	2020 552 96618	1nF 10% 50V 0402
2R11	2022 552 05679	1µF 10% 16V 0805
2R11	2222 780 15663	1µF 10% 0805
2R12	2022 552 05679	1µF 10% 16V 0805
2R12	2222 780 15663	1µF 10% 0805
2R13	2020 552 96618	1nF 10% 50V 0402
2R14	2238 787 15641	22nF 5% 16V 0402
2R15	2020 552 96637	10µF 10% 6.3V 0805
2R16	2022 552 05679	1µF 10% 16V 0805
2R16	2222 780 15663	1µF 10% 0805
2R17	2238 586 59812	100nF 20% 50V 0603
2R18	2020 552 96618	1nF 10% 50V 0402
2R19	2238 586 59812	100nF 20% 50V 0603
2R20	2020 552 96618	1nF 10% 50V 0402
2R21	2020 552 96618	1nF 10% 50V 0402
2R23	2020 552 96618	1nF 10% 50V 0402
2R25	2238 787 15641	22nF 5% 16V 0402
2R26	2238 586 59812	100nF 20% 50V 0603
2R28	2020 552 96618	1nF 10% 50V 0402
2R29	2238 787 15641	22nF 5% 16V 0402
2R30	2020 552 96618	1nF 10% 50V 0402
2R31	2238 787 15641	22nF 5% 16V 0402
2R32	2238 586 59812	100nF 20% 50V 0603
2R33	2238 787 15641	22nF 5% 16V 0402
2R34	4822 124 81058	47µF 20% 4V
2R35	2238 787 15641	22nF 5% 16V 0402
2R36	2020 552 96618	1nF 10% 50V 0402
2R37	2238 586 59812	100nF 20% 50V 0603
2R41	2238 787 15641	22nF 5% 16V 0402
2R42	2020 552 96618	1nF 10% 50V 0402
2R43	2020 552 96618	1nF 10% 50V 0402
2R44	2022 552 05679	1µF 10% 16V 0805
2R44	2222 780 15663	1µF 10% 0805
2R46	4822 124 81058	47µF 20% 4V
2R47	2020 552 96618	1nF 10% 50V 0402
2R48	2020 552 96618	1nF 10% 50V 0402
2R49	2020 552 96618	1nF 10% 50V 0402
2R50	2020 552 96618	1nF 10% 50V 0402
2R51	2020 552 96618	1nF 10% 50V 0402
2R52	2020 552 96618	1nF 10% 50V 0402
2R53	2020 552 96637	10µF 10% 6.3V 0805
2R54	2020 552 96618	1nF 10% 50V 0402
2R55	2020 552 96618	1nF 10% 50V 0402
2R56	2020 552 96618	1nF 10% 50V 0402
2R57	2020 552 96618	1nF 10% 50V 0402
2R58	2238 787 15641	22nF 5% 16V 0402
2R59	2238 787 15641	22nF 5% 16V 0402
2R60	2020 552 96618	1nF 10% 50V 0402
2R61	2022 552 05679	1µF 10% 16V 0805
2R61	2222 780 15663	1µF 10% 0805
2R62	2020 552 96618	1nF 10% 50V 0402
2R63	2020 552 96618	1nF 10% 50V 0402
2R64	2238 787 15641	22nF 5% 16V 0402
2R65	2020 552 96618	1nF 10% 50V 0402
2R66	2020 552 96618	1nF 10% 50V 0402
2R67	2238 586 59812	100nF 20% 50V 0603
2R68	2238 787 15641	22nF 5% 16V 0402
2R69	2238 787 15641	22nF 5% 16V 0402
2R70	2238 787 15641	22nF 5% 16V 0402
2R71	2020 552 96618	1nF 10% 50V 0402
2R72	2020 552 96618	1nF 10% 50V 0402
2R73	2020 552 96618	1nF 10% 50V 0402
2R74	2238 787 15641	22nF 5% 16V 0402
2R75	4822 124 81058	47µF 20% 4V
2R76	2238 787 15641	22nF 5% 16V 0402
2R77	2022 552 05679	1µF 10% 16V 0805
2R78	2238 787 15641	22nF 5% 16V 0402
2R79	2238 787 15641	22nF 5% 16V 0402
2R80	2238 586 59812	100nF 20% 50V 0603
2R81	2022 552 05679	1µF 10% 16V 0805
2R81	2222 780 15663	1µF 10% 0805
2R82	2238 787 15641	22nF 5% 16V 0402
2R83	2020 552 96618	1nF 10% 50V 0402
2R84	2238 787 15641	22nF 5% 16V 0402
2R86	2238 787 15641	22nF 5% 16V 0402
2R87	2238 787 15641	22nF 5% 16V 0402
2R88	2238 787 15641	22nF 5% 16V 0402
2R89	2020 552 96618	1nF 10% 50V 0402
2R90	2238 787 15641	22nF 5% 16V 0402
2R91	2020 552 96618	1nF 10% 50V 0402
2R92	2238 787 15641	22nF 5% 16V 0402
2R93	2020 552 96618	1nF 10% 50V 0402
2R94	2238 586 59812	100nF 20% 50V 0603
2R95	2238 787 15641	22nF 5% 16V 0402
2R96	2238 586 59812	100nF 20% 50V 0603
2R97	2238 787 15641	22nF 5% 16V 0402
2R98	2238 787 15641	22nF 5% 16V 0402
2R99	2238 586 59812	100nF 20% 50V 0603
2RA1	2020 552 96618	1nF 10% 50V 0402
2RA2	2020 021 00213	220µF 25V 20%
2RA3	2020 552 96618	1nF 10% 50V 0402
2RA4	2020 552 96618	1nF 10% 50V 0402
2RA5	2020 552 96618	1nF 10% 50V 0402
2RA6	2022 552 05679	1µF 10% 16V 0805
2RA6	2222 780 15663	1µF 10% 0805
2RA7	2022 552 05679	1µF 10% 16V 0805
2RA7	2222 780 15663	1µF 10% 0805
2RA8	2020 552 96637	10µF 10% 6.3V 0805
2RA9	2020 552 96618	1nF 10% 50V 0402
2RB2	2022 552 05679	1µF 10% 16V 0805
2RB2	2222 780 15663	1µF 10% 0805
2RB3	2020 552 96618	1nF 10% 50V 0402
2RB5	2022 552 05679	1µF 10% 16V 0805
2RB5	2222 780 15663	1µF 10% 0805
2RB6	2022 552 05679	1µF 10% 16V 0805
2RB6	2222 780 15663	1µF 10% 0805
2RC5	2020 552 96618	1nF 10% 50V 0402
2RC6	2020 021 00213	220µF 25V 20%
2RC7	2238 586 59812	100nF 20% 50V 0603
2RC8	2020 552 96637	10µF 10% 6.3V 0805
2T01	2020 552 96683	220nF 10% 50V
2T02	2020 004 90283	10µF 20% 10V 1206
2T03	4822 126 13879	220nF +80-20% 16V
2T04	2238 586 59812	100nF 20% 50V 0603
2T05	2020 552 96628	10nF 10% 16V 0402
2T08	2020 552 96683	220nF 10% 50V
2T09	2238 586 59812	100nF 20% 50V 0603
2T10	3198 034 04790	27pF 1% 50V 0402
2T12	2020 552 96628	10nF 10% 16V 0402
2T13	3198 034 04790	27pF 1% 50V 0402
2T14	2020 004 90283	10µF 20% 10V 1206
2T21	2020 552 96628	10nF 10% 16V 0402
2T22	2020 552 96628	10nF 10% 16V 0402
2T23	2238 586 59812	100nF 20% 50V 0603
2T24	2238 586 59812	100nF 20% 50V 0603
2T25	2238 586 59812	100nF 20% 50V 0603
2T26	2020 552 96683	220nF 10% 50V
2T27	3198 032 47170	47µF 20% 16V
2T28	2238 586 59812	100nF 20% 50V 0603
2T29	2238 586 59812	100nF 20% 50V 0603
2T31	2238 586 59812	100nF 20% 50V 0603
2T32	2238 586 59812	100nF 20% 50V 0603
2U00	2020 552 96618	1nF 10% 50V 0402
2U01	2238 586 59812	100nF 20% 50V 0603
2U02	2020 552 96628	10nF 10% 16V 0402

2U03	2022 552 05679	1µF 10% 16V 0805
2U04	2238 586 59812	100nF 20% 50V 0603
2U05	2020 552 96618	1nF 10% 50V 0402
2U06	2238 586 59812	100nF 20% 50V 0603
2U07	2238 586 59812	100nF 20% 50V 0603
2U08	2238 586 59812	100nF 20% 50V 0603
2U09	2022 552 05635	22µF 10% 16V
2U0A	2022 552 05635	22µF 10% 16V
2U0B	2020 552 96618	1nF 10% 50V 0402
2U0C	2238 586 59812	100nF 20% 50V 0603
2U0D	2020 552 96628	10nF 10% 16V 0402
2U0E	2022 552 05679	1µF 10% 16V 0805
2U0F	2238 586 59812	100nF 20% 50V 0603
2U0G	2020 552 96618	1nF 10% 50V 0402
2U0H	2238 586 59812	100nF 20% 50V 0603
2U0I	2238 586 59812	100nF 20% 50V 0603
2U0J	2238 586 59812	100nF 20% 50V 0603
2U0K	2022 552 05635	22µF 10% 16V
2U0L	2022 552 05635	22µF 10% 16V
2U0M	2020 552 96618	1nF 10% 50V 0402
2U0N	2238 586 59812	100nF 20% 50V 0603
2U0P	2020 552 96628	10nF 10% 16V 0402
2U0Q	2022 552 05679	1µF 10% 16V 0805
2U0R	2238 586 59812	100nF 20% 50V 0603
2U0S	2020 552 96618	1nF 10% 50V 0402
2U0T	2238 586 59812	100nF 20% 50V 0603
2U0U	2238 586 59812	100nF 20% 50V 0603
2U0V	2238 586 59812	100nF 20% 50V 0603
2U0W	2022 552 05635	22µF 10% 16V
2U0Y	2022 552 05635	22µF 10% 16V
2U0Z	3198 035 04710	470pF 50V 0402
2U10	3198 035 04710	470pF 50V 0402
2U11	3198 035 04710	470pF 50V 0402
2U12	2022 552 05635	22µF 10% 16V
2U13	2022 552 05635	22µF 10% 16V
2U14	2022 552 05635	22µF 10% 16V
2U15	2022 552 05679	1µF 10% 16V 0805
2U16	2022 552 05679	1µF 10% 16V 0805
2U17	2022 552 05679	1µF 10% 16V 0805
2U18	2022 552 05679	1µF 10% 16V 0805
2U19	2020 552 96628	10nF 10% 16V 0402
2U1A	2238 787 15641	22nF 5% 16V 0402
2U1B	2020 552 96628	10nF 10% 16V 0402
2U1C	2238 787 15641	22nF 5% 16V 0402
2U1D	2020 552 96628	10nF 10% 16V 0402
2U1E	2020 552 96623	2.2nF 10% 50V 0402
2U1F	5322 124 41945	22µF 20% 35V
2U1G	5322 124 41945	22µF 20% 35V
2U1I	2020 552 96628	10nF 10% 16V 0402
2U1J	2020 552 96628	10nF 10% 16V 0402
2U1K	2020 552 96628	10nF 10% 16V 0402
2U1M	2020 552 96618	1nF 10% 50V 0402
2U1N	2020 552 96618	1nF 10% 50V 0402
2U1P	2020 552 96618	1nF 10% 50V 0402
2U1Q	2020 552 96618	1nF 10% 50V 0402
2U1R	2020 552 96618	1nF 10% 50V 0402
2U1S	2020 552 96618	1nF 10% 50V 0402
2U1T	2020 552 96618	1nF 10% 50V 0402
2U1U	2238 586 59812	100nF 20% 50V 0603
2U1W	2020 552 96623	2.2nF 10% 50V 0402
2U1Y	2020 552 96623	2.2nF 10% 50V 0402
2U1Z	2020 552 96623	2.2nF 10% 50V 0402
2U22	2020 552 96684	470nF 10% 25V 0805
2U24	2022 552 05679	1µF 10% 16V 0805
2U25	2238 787 15641	22nF 5% 16V 0402
2U29	2022 552 05679	1µF 10% 16V 0805
2U32	2020 021 00215	220µF 20% 25V
2U33	2020 021 00215	220µF 20% 25V
2U34	2022 552 05679	1µF 10% 16V 0805
2U35	2020 021 00215	220µF 20% 25V
2U36	2022 552 05679	1µF 10% 16V 0805
2U41	5322 124 41945	22µF 20% 35V
2U43	4822 126 14324	33pF 5% 50V 0402
2U44	3198 035 02210	220pF 5% 50V 0402
2U45	2022 552 05679	1µF 10% 16V 0805
2U46	2020 552 96683	220nF 10% 50V
2V00	2020 552 96618	1nF 10% 50V 0402
2V01	2020 552 96618	1nF 10% 50V 0402
2V02	2020 552 96618	1nF 10% 50V 0402
2V03	2238 586 59812	100nF 20% 50V 0603
2V04	2020 552 96618	1nF 10% 50V 0402
2V05	2238 869 15101	100pF 5% 50V 0402
2V06	2022 552 05679	1µF 10% 16V 0805
2V06	2222 780 15663	1µF 10% 0805
2V07	2022 552 05679	1µF 10% 16V 0805
2V07	2222 780 15663	1µF 10% 0805
2V08	2022 552 05679	1µF 10% 16V 0805
2V08	2222 780 15663	1µF 10% 0805
2V09	2022 552 05679	1µF 10% 16V 0805
2V09	2222 780 15663	1µF 10% 0805
2V10	2022 552 05679	1µF 10% 16V 0805
2V10	2222 780 15663	1µF 10% 0805
2V11	2022 552 05679	1µF 10% 16V 0805
2V11	2222 780 15663	1µF 10% 0805
2V12	2022 552 05679	1µF 10% 16V 0805
2V12	2222 780 15663	1µF 10% 0805
2V13	2022 552 05679	1µF 10% 16V 0805
2V13	2222 780 15663	1µF 10% 0805
2V14	2020 021 00215	220µF 20% 25V
2V16	2238 586 59812	100nF 20% 50V 0603
2V17	2238 586 59812	100nF 20% 50V 0603
2V18	2238 586 59812	100nF 20% 50V 0603
2V19	2238 586 59812	100nF 20% 50V 0603
2V20	2238 586 59812	100nF 20% 50V 0603
2V21	2238 586 59812	100nF 20% 50V 0603
2V22	2238 586 59812	100nF 20% 50V 0603
2V23	2238 586 59812	100nF 20% 50V 0603
2V24	2238 586 59812	100nF 20% 50V 0603
2V25	2238 586 59812	100nF 20% 50V 0603
2V26	2238 586 59812	100nF 20% 50V 0603
2V27	2238 586 59812	100nF 20% 50V 0603
2V28	2238 586 59812	100nF 20% 50V 0603
2V29	2238 586 59812	100nF 20% 50V 0603
2V30	2238 586 59812	100nF 20% 50V 0603
2V31	2238 586 59812	100nF 20% 50V 0603
2V32	2238 586 59812	100nF 20% 50V 0603
2V36	2020 552 96628	10nF 10% 16V 0402
2V37	2020 552 96628	10nF 10% 16V 0402
2V38	2020 552 96628	10nF 10% 16V 0402
2V39	2238 869 15101	100pF 5% 50V 0402
2V40	2238 869 15101	100pF 5% 50V 0402
2V41	2238 869 15101	100pF 5% 50V 0402
2V42	2238 869 15101	100pF 5% 50V 0402
2V43	2238 869 15101	100pF 5% 50V 0402
2V44	2238 869 15101	100pF 5% 50V 0402
2V45	2238 869 15101	100pF 5% 50V 0402
2V46	2238 869 15101	100pF 5% 50V 0402
2V47	2238 869 15101	100pF 5% 50V 0402
2V48	2238 869 15101	100pF 5% 50V 0402
2V49	2020 552 96628	10nF 10% 16V 0402
2V50	2020 552 96628	10nF 10% 16V 0402
2V51	2020 552 96628	10nF 10% 16V 0402
2V52	2238 869 15101	100pF 5% 50V 0402
2V53	2238 586 59812	100nF 20% 50V 0603
2V54	2022 552 05679	1µF 10% 16V 0805
2V54	2222 780 15663	1µF 10% 0805
2V55	2022 552 05679	1µF 10% 16V 0805
2V55	2222 780 15663	1µF 10% 0805
2V56	2238 869 15101	100pF 5% 50V 0402
2W01	2238 586 59812	100nF 20% 50V 0603
2W04	2238 586 59812	100nF 20% 50V 0603
2W09	4822 124 11946	22µF 20% 16V
2W14	2238 586 59812	100nF 20% 50V 0603
2W15	4822 126 14472	1µF 10% 10V 0805
2W16	4822 126 14472	1µF 10% 10V 0805
2W18	3198 035 71040	100nF 10% 16V 0402
2W53	2238 586 59812	100nF 20% 50V 0603
2W54	2238 586 59812	100nF 20% 50V 0603
2W55	2238 586 59812	100nF 20% 50V 0603
2W57	2238 586 59812	100nF 20% 50V 0603
2W58	2238 586 59812	100nF 20% 50V 0603
2W59	2238 586 59812	100nF 20% 50V 0603
2W60	2238 586 59812	100nF 20% 50V 0603
2W63	2238 586 59812	100nF 20% 50V 0603
2W64	2238 586 59812	100nF 20% 50V 0603
2W65	2238 586 59812	100nF 20% 50V 0603
2W66	2238 586 59812	100nF 20% 50V 0603
2W71	2238 586 59812	100nF 20% 50V 0603
2W72	2238 586 59812	100nF 20% 50V 0603
2W73	2238 586 59812	100nF 20% 50V 0603
2W74	2238 586 59812	100nF 20% 50V 0603
2W75	2238 586 59812	100nF 20% 50V 0603
2W76	2020 004 90283	10µF 20% 10V 1206
2W78	2238 586 59812	100nF 20% 50V 0603
2W79	2020 552 96628	10nF 10% 16V 0402
2W80	2020 552 96628	10nF 10% 16V 0402
2W81	2238 586 59812	100nF 20% 50V 0603
2W86	2238 586 59812	100nF 20% 50V 0603
2W91	2020 552 96628	10nF 10% 16V 0402
2W92	2020 552 96628	10nF 10% 16V 0402
2W93	2238 586 59812	100nF 20% 50V 0603
2Y38	2022 552 05679	1µF 10% 16V 0805
2Y39	2022 552 05679	1µF 10% 16V 0805
2Y40	2238 586 59812	100nF 20% 50V 0603
2Y41	2238 586 59812	100nF 20% 50V 0603
2Y42	4822 124 80151	47µF 16V
2Y43	2238 586 59812	100nF 20% 50V 0603
2Y45	2238 586 59812	100nF 20% 50V 0603
2Z04	4822 051 30331	330Ω 5% 0.062W
2Z05	4822 051 30331	330Ω 5% 0.062W
2Z06	4822 051 30331	330Ω 5% 0.062W
2Z07	4822 051 30331	330Ω 5% 0.062W
2Z08	4822 051 30331	330Ω 5% 0.062W
2Z09	4822 051 30759	75Ω 5% 0.062W
2Z20	4822 051 30331	330Ω 5% 0.062W
2Z21	4822 051 30331	330Ω 5% 0.062W
2Z22	4822 051 30331	330Ω 5% 0.062W
2Z23	4822 051 30331	330Ω 5% 0.062W
2Z24	4822 051 30331	330Ω 5% 0.062W
2Z25	4822 051 30331	330Ω 5% 0.062W
2Z26	4822 051 30331	330Ω 5% 0.062W
2Z27	4822 051 30331	330Ω 5% 0.062W
2Z28	4822 051 30331	330Ω 5% 0.062W
2Z50	4822 051 30331	330Ω 5% 0.062W
2Z51	2238 586 59812	100nF 20% 50V 0603
2Z52	2238 586 59812	100nF 20% 50V 0603

–WW–

3A01	3198 031 06810	680Ω 5% 0.01W 0402
3A05	3198 031 01810	180Ω 5% 0402
3A06	3198 031 02710	270Ω 5% 0.1W 0402
3A10	3198 031 04730	47Ω 5% 0402
3A11	3198 031 01830	18kΩ 5% 0.01W 0402
3A12	3198 031 04730	47Ω 5% 0402
3A13	3198 031 04730	47Ω 5% 0402
3A14	3198 031 01830	18kΩ 5% 0.01W 0402
3A15	4822 117 13601	22kΩ 5% 0402
3A17	4822 117 11297	100kΩ 5% 0.1W
3A19	4822 117 11297	100kΩ 5% 0.1W
3A20	4822 117 13603	33kΩ 5% 0402
3A21	3198 031 02730	27kΩ 5% 0402
3A22	4822 117 13603	33kΩ 5% 0402
3A23	3198 031 02730	27kΩ 5% 0402
3A24	4822 117 13603	33kΩ 5% 0402
3A25	4822 117 13603	33kΩ 5% 0402
3A26	3198 031 04730	47Ω 5% 0402
3A27	3198 031 04730	47Ω 5% 0402
3A28	4822 117 11297	100kΩ 5% 0.1W
3A29	4822 117 11297	100kΩ 5% 0.1W
3A31▲	5322 117 11726	10Ω 5%
3A33	3198 031 01810	180Ω 5% 0402
3A38	3198 031 04730	47Ω 5% 0402
3A39	4822 117 13545	100Ω 1% 0402
3A40	4822 117 13545	100Ω 1% 0402
3A42	4822 117 13548	1kΩ 5% 0402
3A45	4822 117 13548	1kΩ 5% 0402
3A46	4822 117 13548	1kΩ 5% 0402
3A50	3198 031 04720	4.7kΩ 5% 0402
3A53	3198 031 03910	390Ω 1% 0402
3A56	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A57	4822 117 13602	2.2kΩ 5% 0.01W 0402
3A60	3198 031 02730	27kΩ 5% 0402
3A65	3198 031 04720	4.7kΩ 5% 0402
3A67	3198 031 04720	4.7kΩ 5% 0402
3A80	4822 117 13545	100Ω 1% 0402
3B02	4822 117 13597	330Ω 5% 0.01W 0402
3B03	4822 117 13597	330Ω 5% 0.01W 0402
3B04	4822 117 13606	10kΩ 5% 0.01W 0402
3B05	3198 031 04730	47Ω 5% 0402
3B06	3198 031 04730	47Ω 5% 0402
3B07	4822 117 13596	220Ω 5% 0.01W 0402
3B08	4822 117 13596	220Ω 5% 0.01W 0402
3B14	4822 117 13597	330Ω 5% 0.01W 0402
3B15	4822 117 13597	330Ω 5% 0.01W 0402
3B16	4822 117 13606	10kΩ 5% 0.01W 0402
3B17	3198 031 04730	47Ω 5% 0402
3B18	3198 031 04730	47Ω 5% 0402
3B19	4822 117 13596	220Ω 5% 0.01W 0402
3B20	4822 117 13596	220Ω 5% 0.01W 0402
3B23	4822 117 13548	1kΩ 5% 0402
3B24	4822 117 13548	1kΩ 5% 0402
3B30	4822 117 13597	330Ω 5% 0.01W 0402
3B32	4822 117 13597	330Ω 5% 0.01W 0402
3B34	4822 117 13597	330Ω 5% 0.01W 0402
3B36	3198 031 01230	12kΩ 5% 0402
3B37	4822 117 13548	1kΩ 5% 0402
3B38	4822 117 13548	1kΩ 5% 0402
3B40	4822 117 13548	1kΩ 5% 0402
3B41	3198 031 03390	33Ω 1% 0402
3B43	4822 117 13606	10kΩ 5% 0.01W 0402
3B44	3198 031 03390	33Ω 1% 0402
3B45	4822 117 13606	10kΩ 5% 0.01W 0402
3B46	3198 031 03390	33Ω 1% 0402
3B48	2322 706 71002	1kΩ 1% 0402
3B49	3198 031 04730	47Ω 5% 0402
3B50	4822 117 13543	470Ω 5% 0402
3B51	3198 021 34780	4.7Ω 5% 0603
3B52	4822 117 13597	330Ω 5% 0.01W 0402
3B53	2322 702 60338	3.3Ω 5% 0603
3B56	2350 033 11339	4 x 33Ω 5%
3B57	2350 033 11339	4 x 33Ω 5%
3B58	2350 033 11339	4 x 33Ω 5%
3B59	2350 033 11339	4 x 33Ω 5%
3B60	4822 117 13545	100Ω 1% 0402
3B61	4822 117 13545	100Ω 1% 0402
3B62	2350 033 11339	4 x 33Ω 5%
3B63	4822 117 13605	Jumper 0402
3B64	4822 117 13543	470Ω 5% 0402
3B65	4822 117 13548	1kΩ 5% 0402
3B66	4822 117 13543	470Ω 5% 0402

3B67	4822 117 13548	1kΩ 5% 0402
3B69	4822 117 13605	Jumper 0402
3B70	4822 117 13543	470Ω 5% 0402
3B71	4822 117 13548	1kΩ 5% 0402
3B72	4822 117 13543	470Ω 5% 0402
3B73	4822 117 13548	1kΩ 5% 0402
3B75	4822 117 13605	Jumper 0402
3B76	4822 117 13543	470Ω 5% 0402
3B77	4822 117 13548	1kΩ 5% 0402
3B78	4822 117 13543	470Ω 5% 0402
3B79	4822 117 13548	1kΩ 5% 0402
3B80	3198 031 03390	33Ω 1% 0402
3B82	4822 117 13606	10kΩ 5% 0.01W 0402
3B83	4822 117 13606	10kΩ 5% 0.01W 0402
3B90	3198 031 02290	22Ω 5% 0.1W 0402
3B91	4822 117 11297	100kΩ 5% 0.1W
3B92	3198 031 02290	22Ω 5% 0.1W 0402
3B93	4822 117 11297	100kΩ 5% 0.1W
3C00	3198 031 02710	270Ω 5% 0.1W 0402
3C01	3198 031 06810	680Ω 5% 0.01W 0402
3C02	4822 117 13545	100Ω 1% 0402
3C05	3198 031 01810	180Ω 5% 0402
3C06	3198 031 02710	270Ω 5% 0.1W 0402
3C30	3198 031 05610	560Ω 5% 0.01W 0402
3C31▲	5322 117 11726	10Ω 5%
3C32	3198 031 01220	1.2kΩ 5% 0.01W 0402
3C33	3198 031 01810	180Ω 5% 0402
3C34	3198 031 01220	1.2kΩ 5% 0.01W 0402
3C39	4822 117 13545	100Ω 1% 0402
3C40	4822 117 13545	100Ω 1% 0402
3C45	3198 031 04730	47Ω 5% 0402
3C50	3198 031 04720	4.7kΩ 5% 0402
3C53	3198 031 03910	390Ω 1% 0402
3C56	3198 031 06820	6.8kΩ 5% 0.01W 0402
3C57	4822 117 13602	2.2kΩ 5% 0.01W 0402
3C60	3198 031 02730	27kΩ 5% 0402
3C65	3198 031 04720	4.7kΩ 5% 0402
3C67	3198 031 04720	4.7kΩ 5% 0402
3C80	4822 117 13545	100Ω 1% 0402
3C81	3198 031 03390	33Ω 1% 0402
3D00	4822 117 13605	Jumper 0402
3D01	3198 031 04720	4.7kΩ 5% 0402
3D02	4822 117 13606	10kΩ 5% 0.01W 0402
3D05	4822 117 13603	33kΩ 5% 0402
3D07	4822 117 13603	33kΩ 5% 0402
3D09	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D10	2322 762 60332	3.3kΩ 5% 2512
3D11	2350 033 11223	22kΩ 5%
3D12	2322 762 60332	3.3kΩ 5% 2512
3D13	2350 033 11223	22kΩ 5%
3D14	3198 031 02240	220kΩ 5% 0.1W 0402
3D15	3198 031 04730	47Ω 5% 0402
3D16	3198 031 02240	220kΩ 5% 0.1W 0402
3D17	3198 031 05620	5.6kΩ 5% 0.01W 0402
3D18	3198 031 02720	2.7kΩ 5% 0.01W 0402
3D19	3198 031 02240	220kΩ 5% 0.1W 0402
3D20	3198 031 04730	47Ω 5% 0402
3D21	3198 031 04730	47Ω 5% 0402
3D22	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D23	3198 031 02240	220kΩ 5% 0.1W 0402
3D24	3198 031 04730	47Ω 5% 0402
3D25	3198 031 04730	47Ω 5% 0402
3D26	3198 031 04730	47Ω 5% 0402
3D27	3198 031 04730	47Ω 5% 0402
3D28	4822 117 13601	22kΩ 5% 0402
3D29	3198 031 02720	2.7kΩ 5% 0.01W 0402
3D30	3198 031 04730	47Ω 5% 0402
3D31	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D32	4822 117 11297	100kΩ 5% 0.1W
3D33	3198 031 04730	47Ω 5% 0402
3D34	4822 117 13606	10kΩ 5% 0.01W 0402
3D35	3198 031 04730	47Ω 5% 0402
3D36	3198 031 04730	47Ω 5% 0402
3D37	4822 117 13603	33kΩ 5% 0402
3D38	3198 031 04720	4.7kΩ 5% 0402
3D39	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D40	4822 117 13606	10kΩ 5% 0.01W 0402
3D41	4822 117 13601	22kΩ 5% 0402
3D42	3198 031 01220	1.2kΩ 5% 0.01W 0402
3D43	3198 031 01220	1.2kΩ 5% 0.01W 0402
3D44	4822 117 13601	22kΩ 5% 0402
3D45	2322 762 60107	0.1Ω 5% 2512
3D46	2322 762 60107	0.1Ω 5% 2512
3D47	3198 031 04780	4.7Ω 5% 0402
3D48	3198 031 04780	4.7Ω 5% 0402
3D49	2322 762 60331	330Ω 5% 2512
3D50	2322 762 60331	330Ω 5% 2512
3D51	3198 031 04720	4.7kΩ 5% 0402
3D52	3198 031 04720	4.7kΩ 5% 0402
3D53	3198 031 01830	18kΩ 5% 0.01W 0402
3D54	3198 031 01830	18kΩ 5% 0.01W 0402
3D55	3198 031 06810	680Ω 5% 0.01W 0402
3D56	3198 031 06810	680Ω 5% 0.01W 0402
3D57	4822 117 13601	22kΩ 5% 0402
3D58	4822 117 13601	22kΩ 5% 0402
3D59	3198 031 01220	1.2kΩ 5% 0.01W 0402
3D60	3198 031 01220	1.2kΩ 5% 0.01W 0402
3D61	3198 031 03920	3.9kΩ 5% 0402
3D62	4822 117 11297	100kΩ 5% 0.1W
3D63	3198 031 03920	3.9kΩ 5% 0402
3D64	4822 117 11297	100kΩ 5% 0.1W
3D65	4822 117 13606	10kΩ 5% 0.01W 0402
3D66	4822 117 13606	10kΩ 5% 0.01W 0402
3D67	3198 031 05610	560Ω 5% 0.01W 0402
3D68	3198 031 05610	560Ω 5% 0.01W 0402
3D69	4822 117 13601	22kΩ 5% 0402
3D70	2322 762 60332	3.3kΩ 5% 2512
3D71	2350 033 11223	22kΩ 5%
3D72	2322 762 60332	3.3kΩ 5% 2512
3D73	2350 033 11223	22kΩ 5%
3D74	4822 117 13601	22kΩ 5% 0402
3D75	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D76	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D77	4822 117 13601	22kΩ 5% 0402
3D78	2322 762 60107	0.1Ω 5% 2512
3D79	2322 762 60107	0.1Ω 5% 2512
3D80	3198 031 04780	4.7Ω 5% 0402
3D81	3198 031 04780	4.7Ω 5% 0402
3D82	2322 762 60331	330Ω 5% 2512
3D83	2322 762 60331	330Ω 5% 2512
3D84	3198 031 04720	4.7kΩ 5% 0402
3D85	3198 031 04720	4.7kΩ 5% 0402
3D86	3198 031 01830	18kΩ 5% 0.01W 0402
3D87	3198 031 01830	18kΩ 5% 0.01W 0402
3D88	3198 031 06810	680Ω 5% 0.01W 0402
3D89	3198 031 06810	680Ω 5% 0.01W 0402
3D90	4822 117 13601	22kΩ 5% 0402
3D91	4822 117 13601	22kΩ 5% 0402
3D92	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D93	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D94	3198 031 03920	3.9kΩ 5% 0402
3D95	4822 117 11297	100kΩ 5% 0.1W
3D96	3198 031 03920	3.9kΩ 5% 0402
3D97	4822 117 11297	100kΩ 5% 0.1W
3D98	4822 117 13606	10kΩ 5% 0.01W 0402
3D99	4822 117 13606	10kΩ 5% 0.01W 0402
3DA1	3198 031 05610	560Ω 5% 0.01W 0402
3DA2	3198 031 05610	560Ω 5% 0.01W 0402
3DA3	3198 031 01820	1.8kΩ 5% 0.01W 0402
3DA4	3198 031 03920	3.9kΩ 5% 0402
3DA5	4822 117 13606	10kΩ 5% 0.01W 0402
3DA6	4822 117 13603	33kΩ 5% 0402
3DA7	4822 117 13606	10kΩ 5% 0.01W 0402
3DA8	4822 117 13606	10kΩ 5% 0.01W 0402
3DC2	4822 117 13605	Jumper 0402
3DC8	4822 117 13605	Jumper 0402
3DF1	4822 117 13545	100Ω 1% 0402
3DF2	4822 126 14324	33pF 5% 50V 0402
3DF3	4822 126 14324	33pF 5% 50V 0402
3DF4	4822 126 14324	33pF 5% 50V 0402
3DF5	4822 126 14324	33pF 5% 50V 0402
3F13	3198 031 04720	4.7kΩ 5% 0402
3F18	3198 031 04720	4.7kΩ 5% 0402
3F1N	4822 117 13606	10kΩ 5% 0.01W 0402
3F1P	4822 117 11297	100kΩ 5% 0.1W
3F1Q	4822 117 13606	10kΩ 5% 0.01W 0402
3F1R	4822 117 13603	33kΩ 5% 0402
3F1W	3198 031 04730	47Ω 5% 0402
3F1Y	3198 031 04730	47Ω 5% 0402
3F1Z	4822 117 13606	10kΩ 5% 0.01W 0402
3F21	4822 117 13606	10kΩ 5% 0.01W 0402
3F22	4822 117 13546	47Ω 5% 0402
3F23	3198 031 04720	4.7kΩ 5% 0402
3F24	3198 031 04720	4.7kΩ 5% 0402
3F2D	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F2S	4822 117 13545	100Ω 1% 0402
3F2T	4822 117 13545	100Ω 1% 0402
3F2U	4822 117 13546	47Ω 5% 0402
3F2W	3198 031 04720	4.7kΩ 5% 0402
3F2Y	2322 706 71003	10kΩ 5% 0402
3F2Y	4822 117 13606	10kΩ 5% 0.01W 0402
3F2Z	4822 117 13548	1kΩ 5% 0402
3F30	2322 706 71203	12kΩ 5% 0402
3F30	3198 031 01230	12kΩ 5% 0402
3F31	2322 706 78202	8.2kΩ 1% 0402 RC321
3F31	3198 031 08220	8.2kΩ 5% 0.5W
3F36	3198 031 04730	47Ω 5% 0402
3F36	4822 117 13606	10kΩ 5% 0.01W 0402
3F39	4822 117 13606	10kΩ 5% 0.01W 0402
3F3A	4822 117 13606	10kΩ 5% 0.01W 0402
3F3B	3198 031 04720	4.7kΩ 5% 0402
3F3C	3198 031 04720	4.7kΩ 5% 0402
3F3G	4822 117 13545	100Ω 1% 0402
3F3H	4822 117 13548	1kΩ 5% 0402
3F3K	4822 117 13548	1kΩ 5% 0402
3F3L	4822 117 11297	100kΩ 5% 0.1W
3F3P	4822 117 13545	100Ω 1% 0402
3F3Q	4822 117 13545	100Ω 1% 0402
3F43	4822 117 13545	100Ω 1% 0402
3F4A	3198 031 01050	1MΩ 5% 0402
3F4B	4822 117 13546	47Ω 5% 0402
3F4C	4822 117 13545	100Ω 1% 0402
3F4D	4822 117 13545	100Ω 1% 0402
3F4E	4822 117 13545	100Ω 1% 0402
3F4F	4822 117 13545	100Ω 1% 0402
3F4H	3198 031 04720	4.7kΩ 5% 0402
3F4I	3198 031 04720	4.7kΩ 5% 0402
3F4J	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F4K	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F4N	3198 031 04720	4.7kΩ 5% 0402
3F4P	3198 031 04720	4.7kΩ 5% 0402
3F4Q	3198 031 04720	4.7kΩ 5% 0402
3F4S	3198 031 03390	33Ω 1% 0402
3F4T	3198 031 03390	33Ω 1% 0402
3F4U	3198 031 03390	33Ω 1% 0402
3F4V	3198 031 03390	33Ω 1% 0402
3F4W	3198 031 03390	33Ω 1% 0402
3F4X	3198 031 03390	33Ω 1% 0402
3F4Y	3198 031 03390	33Ω 1% 0402
3F4Z	3198 031 03390	33Ω 1% 0402
3F56	4822 117 13545	100Ω 1% 0402
3F57	4822 117 13606	10kΩ 5% 0.01W 0402
3F5A	3198 031 03390	33Ω 1% 0402
3F5B	3198 031 03390	33Ω 1% 0402
3F5C	3198 031 03390	33Ω 1% 0402
3F5D	3198 031 03390	33Ω 1% 0402
3F5E	3198 031 03390	33Ω 1% 0402
3F5F	3198 031 03390	33Ω 1% 0402
3F5G	3198 031 03390	33Ω 1% 0402
3F5H	3198 031 03390	33Ω 1% 0402
3F5I	3198 031 03390	33Ω 1% 0402
3F5J	3198 031 03390	33Ω 1% 0402
3F5K	3198 031 03390	33Ω 1% 0402
3F5L	3198 031 03390	33Ω 1% 0402
3F5M	3198 031 03390	33Ω 1% 0402
3F5N	3198 031 03390	33Ω 1% 0402
3F5O	3198 031 03390	33Ω 1% 0402
3F5P	3198 031 03390	33Ω 1% 0402
3F5Q	3198 031 03390	33Ω 1% 0402
3F5R	3198 031 03390	33Ω 1% 0402
3F5S	3198 031 03390	33Ω 1% 0402
3F5T	3198 031 03390	33Ω 1% 0402
3F5U	3198 031 03390	33Ω 1% 0402
3F5V	3198 031 03390	33Ω 1% 0402
3F5W	3198 031 03390	33Ω 1% 0402
3F5X	3198 031 03390	33Ω 1% 0402
3F5Y	3198 031 03390	33Ω 1% 0402
3F5Z	3198 031 03390	33Ω 1% 0402
3F61	4822 117 13545	100Ω 1% 0402
3F62	4822 117 13545	100Ω 1% 0402
3F63	4822 117 13596	220Ω 5% 0.01W 0402
3F65	4822 117 13606	10kΩ 5% 0.01W 0402
3F66	4822 117 13606	10kΩ 5% 0.01W 0402
3F67	4822 117 13545	100Ω 1% 0402
3F68	4822 117 13546	47Ω 5% 0402
3F69	4822 117 13546	47Ω 5% 0402
3F6A	3198 031 03390	33Ω 1% 0402
3F70	4822 117 13546	47Ω 5% 0402
3F71	4822 117 13606	10kΩ 5% 0.01W 0402
3F72	4822 117 13606	10kΩ 5% 0.01W 0402
3F73	4822 117 13545	100Ω 1% 0402
3F74	4822 117 13545	100Ω 1% 0402
3F75	4822 117 13546	47Ω 5% 0402
3F76	4822 117 13545	100Ω 1% 0402
3F77	4822 117 13545	100Ω 1% 0402
3F78	4822 117 13545	100Ω 1% 0402
3F79	4822 117 13597	330Ω 5% 0.01W 0402
3F80	4822 117 13543	470Ω 5% 0402
3F81	4822 117 13597	330Ω 5% 0.01W 0402
3F82	4822 117 13597	330Ω 5% 0.01W 0402
3F83	4822 117 11297	100kΩ 5% 0.1W
3F84	4822 117 11297	100kΩ 5% 0.1W
3F90	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F91	4822 117 13548	1kΩ 5% 0402
3F92	4822 117 13545	100Ω 1% 0402
3F93	4822 117 13545	100Ω 1% 0402
3F94	3198 031 04720	4.7kΩ 5% 0402
3H01	3198 031 04720	4.7kΩ 5% 0402
3H02	3198 031 06890	68Ω 5% 0402
3H03	3198 031 04720	4.7kΩ 5% 0402
3H04	3198 031 01820	1.8kΩ 5% 0.01W 0402
3H05	3198 031 01820	1.8kΩ 5% 0.01W 0402
3H06	3198 031 02290	22Ω 5% 0.1W 0402
3H08	3198 031 04720	4.7kΩ 5% 0402
3H10	3198 031 04720	4.7kΩ 5% 0402
3H11	3198 031 04720	4.7kΩ 5% 0402
3H12	3198 031 02290	22Ω 5% 0.1W 0402
3H13	3198 031 04720	4.7kΩ 5% 0402
3H14	3198 031 02290	22Ω 5% 0.1W 0402
3H15	4822 117 13545	100Ω 1% 0402
3H16	3198 031 04720	4.7kΩ 5% 0402
3H17	3198 031 04720	4.7kΩ 5% 0402

3H18	3198 031 04720	4.7kΩ 5% 0402
3H19	4822 117 13548	1kΩ 5% 0402
3H20	2322 705 70399	39Ω 5% 0402
3H21	2322 705 70399	39Ω 5% 0402
3H22	3198 031 04720	4.7kΩ 5% 0402
3H23	3198 031 04720	4.7kΩ 5% 0402
3H24	4822 117 13545	100Ω 1% 0402
3H26	4822 117 13545	100Ω 1% 0402
3H27	4822 117 13606	10kΩ 5% 0.01W 0402
3H28	3198 031 04720	4.7kΩ 5% 0402
3H29	3198 031 04720	4.7kΩ 5% 0402
3H30	4822 117 13545	100Ω 1% 0402
3H31	3198 031 04720	4.7kΩ 5% 0402
3H32	3198 031 04720	4.7kΩ 5% 0402
3H33	4822 117 13545	100Ω 1% 0402
3H40	4822 117 13545	100Ω 1% 0402
3H44	3198 031 04720	4.7kΩ 5% 0402
3H45	3198 031 04720	4.7kΩ 5% 0402
3H46	3198 031 04720	4.7kΩ 5% 0402
3H48	3198 031 06890	68Ω 5% 0402
3H49	3198 031 06890	68Ω 5% 0402
3H50	4822 117 13548	1kΩ 5% 0402
3H51	4822 117 13548	1kΩ 5% 0402
3H52	3198 031 04720	4.7kΩ 5% 0402
3H70	3198 031 04720	4.7kΩ 5% 0402
3H71	3198 031 04720	4.7kΩ 5% 0402
3H72	4822 117 13545	100Ω 1% 0402
3H73	4822 117 13546	47Ω 5% 0402
3H74	3198 031 06890	68Ω 5% 0402
3H75	4822 117 13545	100Ω 1% 0402
3H79	3198 031 02290	22Ω 5% 0.1W 0402
3H80	2350 033 11103	4x 10kΩ 5% Netw.
3H81	2350 033 11103	4x 10kΩ 5% Netw.
3H82	3198 031 01050	1MΩ 5% 0402
3H83	3198 031 04720	4.7kΩ 5% 0402
3H84	3198 031 04720	4.7kΩ 5% 0402
3H85	3198 031 04720	4.7kΩ 5% 0402
3H86	3198 031 04720	4.7kΩ 5% 0402
3H87	3198 031 04720	4.7kΩ 5% 0402
3H88	3198 031 04720	4.7kΩ 5% 0402
3H89	3198 031 01590	15Ω 5% 0402
3H90	3198 031 04720	4.7kΩ 5% 0402
3H91	3198 031 04720	4.7kΩ 5% 0402
3H92	3198 031 07590	75Ω 5% 0402
3H93	3198 031 04720	4.7kΩ 5% 0402
3H94	3198 031 04720	4.7kΩ 5% 0402
3H95	4822 117 13597	330Ω 5% 0.01W 0402
3H97	3198 031 04720	4.7kΩ 5% 0402
3H98	4822 117 13545	100Ω 1% 0402
3H99	4822 117 13545	100Ω 1% 0402
3I00	4822 117 13545	100Ω 1% 0402
3I01	4822 117 11297	100kΩ 5% 0.1W
3I02	4822 117 13545	100Ω 1% 0402
3I03	4822 117 11297	100kΩ 5% 0.1W
3I12	4822 117 13545	100Ω 1% 0402
3I13	4822 117 11297	100kΩ 5% 0.1W
3I14	4822 117 13545	100Ω 1% 0402
3I15	4822 117 11297	100kΩ 5% 0.1W
3I16	4822 117 13601	22kΩ 5% 0402
3I17	3198 031 04730	47Ω 5% 0402
3I18	3198 031 06890	68Ω 5% 0402
3I19▲	4822 117 11151	1Ω 5%
3I21	4822 117 13545	100Ω 1% 0402
3I22	4822 117 11297	100kΩ 5% 0.1W
3I23	4822 117 13545	100Ω 1% 0402
3I24	4822 117 13548	1kΩ 5% 0402
3I25	4822 117 13545	100Ω 1% 0402
3I26	4822 117 11297	100kΩ 5% 0.1W
3I27	4822 117 13545	100Ω 1% 0402
3I28	4822 117 13548	1kΩ 5% 0402
3I31	4822 051 30759	75Ω 5% 0.062W
3I32	4822 051 30759	75Ω 5% 0.062W
3I33	4822 051 30759	75Ω 5% 0.062W
3I46	3198 031 07590	75Ω 5% 0402
3I51	4822 051 30759	75Ω 5% 0.062W
3I52	4822 051 30759	75Ω 5% 0.062W
3I53	4822 051 30759	75Ω 5% 0.062W
3I54	4822 051 30101	100Ω 5% 0.062W
3I55	3198 031 04720	4.7kΩ 5% 0402
3I56	3198 031 04720	4.7kΩ 5% 0402
3I57	4822 051 30101	100Ω 5% 0.062W
3I58	3198 031 04720	4.7kΩ 5% 0402
3I59	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I59	4822 117 13605	Jumper 0402
3I60	4822 117 11297	100kΩ 5% 0.1W
3I61	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I62	4822 117 13545	100Ω 1% 0402
3I63	4822 117 13606	10kΩ 5% 0.01W 0402
3I64	3198 031 04720	4.7kΩ 5% 0402
3I65	4822 117 13545	100Ω 1% 0402
3I66	3198 031 02240	220kΩ 5% 0.1W 0402
3I68	4822 051 30102	1kΩ 5% 0.062W
3I69	4822 117 13606	10kΩ 5% 0.01W 0402
3I70	3198 031 02240	220kΩ 5% 0.1W 0402
3I71	4822 117 13606	10kΩ 5% 0.01W 0402
3I74	3198 031 03930	39kΩ 5% 0402
3I75	2322 734 63309	33Ω 1% 0.1W 0805
3I76	2322 734 63309	33Ω 1% 0.1W 0805
3I77	3198 031 01510	150Ω 5% 0.01W 0402
3I78	4822 051 30221	220Ω 5% 0.062W
3I79	3198 031 04740	470kΩ 5% 0402
3I80	4822 117 11297	100kΩ 5% 0.1W
3I81	2322 734 63309	33Ω 1% 0.1W 0805
3I82	2322 734 63309	33Ω 1% 0.1W 0805
3I83	3198 031 01510	150Ω 5% 0.01W 0402
3I84	3198 031 02240	220kΩ 5% 0.1W 0402
3I86	4822 051 30102	1kΩ 5% 0.062W
3I87	4822 117 13606	10kΩ 5% 0.01W 0402
3I88	3198 031 02240	220kΩ 5% 0.1W 0402
3I89	4822 051 30221	220Ω 5% 0.062W
3I90	3198 031 04740	470kΩ 5% 0402
3I91	4822 117 13606	10kΩ 5% 0.01W 0402
3I92	3198 031 03930	39kΩ 5% 0402
3I93	4822 117 13606	10kΩ 5% 0.01W 0402
3I94	4822 117 13606	10kΩ 5% 0.01W 0402
3I95	3198 031 06840	680kΩ 5% 0.01W 0402
3I96	3198 031 04730	47Ω 5% 0402
3I97	4822 117 11297	100kΩ 5% 0.1W
3I98	4822 117 13606	10kΩ 5% 0.01W 0402
3I99	4822 117 13596	220Ω 5% 0.01W 0402
3J03	3198 031 06890	68Ω 5% 0402
3J04	4822 117 13546	47Ω 5% 0402
3J05	3198 031 02290	22Ω 5% 0.1W 0402
3J06	3198 031 02290	22Ω 5% 0.1W 0402
3J07	3198 031 06890	68Ω 5% 0402
3J08	3198 031 06890	68Ω 5% 0402
3J09	3198 031 06890	68Ω 5% 0402
3J10	4822 117 13548	1kΩ 5% 0402
3J11	3198 031 06890	68Ω 5% 0402
3J14	4822 117 13548	1kΩ 5% 0402
3J15	4822 117 13548	1kΩ 5% 0402
3J16	4822 117 13548	1kΩ 5% 0402
3J17	4822 117 13546	47Ω 5% 0402
3L00	4822 117 11297	100kΩ 5% 0.1W
3L01	3198 031 01090	10Ω 5% 0.01W 0402
3L02	3198 031 05630	56kΩ 5% 0402
3L03	3198 031 06830	68kΩ 5% 0.01W 0402
3L04	3198 031 03390	33Ω 1% 0402
3L05	3198 031 03390	33Ω 1% 0402
3L06	3198 031 02290	22Ω 5% 0.1W 0402
3L07	3198 031 02290	22Ω 5% 0.1W 0402
3L08	4822 117 13546	47Ω 5% 0402
3L09	4822 117 13546	47Ω 5% 0402
3L10	4822 117 13546	47Ω 5% 0402
3L11	4822 117 13546	47Ω 5% 0402
3L12	4822 117 13546	47Ω 5% 0402
3L13	4822 117 13546	47Ω 5% 0402
3L14	4822 117 13546	47Ω 5% 0402
3L15	4822 117 13546	47Ω 5% 0402
3L16	4822 117 13546	47Ω 5% 0402
3L17	4822 117 13546	47Ω 5% 0402
3L18	4822 117 13546	47Ω 5% 0402
3L19	4822 117 13546	47Ω 5% 0402
3L20	4822 117 13546	47Ω 5% 0402
3L21	4822 117 13546	47Ω 5% 0402
3L22	4822 117 13548	1kΩ 5% 0402
3L23	4822 117 13546	47Ω 5% 0402
3L24	4822 117 13548	1kΩ 5% 0402
3L25	4822 117 13546	47Ω 5% 0402
3L26	4822 117 13546	47Ω 5% 0402
3L27	4822 117 13546	47Ω 5% 0402
3L28	4822 117 13548	1kΩ 5% 0402
3L29	4822 117 13546	47Ω 5% 0402
3L30	3198 031 03390	33Ω 1% 0402
3L31	4822 117 13546	47Ω 5% 0402
3L32	4822 117 13548	1kΩ 5% 0402
3L33	4822 117 13546	47Ω 5% 0402
3L34	3198 031 03390	33Ω 1% 0402
3L36	4822 117 11297	100kΩ 5% 0.1W
3L37	4822 117 13606	10kΩ 5% 0.01W 0402
3L38	3198 031 04740	470kΩ 5% 0402
3L39	3198 031 03390	33Ω 1% 0402
3L40	4822 117 13545	100Ω 1% 0402
3L41	4822 117 13546	47Ω 5% 0402
3L42	4822 117 13546	47Ω 5% 0402
3L43	4822 117 13546	47Ω 5% 0402
3L44	4822 117 13546	47Ω 5% 0402
3L45	4822 117 13546	47Ω 5% 0402
3L46	4822 117 13546	47Ω 5% 0402
3L47	4822 117 13546	47Ω 5% 0402
3L48	4822 117 13546	47Ω 5% 0402
3L49	4822 117 13546	47Ω 5% 0402
3L50	3198 031 02290	22Ω 5% 0.1W 0402
3L51	4822 117 13545	100Ω 1% 0402
3L52	4822 117 13546	47Ω 5% 0402
3L53	4822 117 13546	47Ω 5% 0402
3L54	4822 117 13546	47Ω 5% 0402
3L55	4822 117 13546	47Ω 5% 0402
3L56	3198 031 02290	22Ω 5% 0.1W 0402
3L57	3198 031 02290	22Ω 5% 0.1W 0402
3L58	3198 031 02290	22Ω 5% 0.1W 0402
3L59	3198 031 02290	22Ω 5% 0.1W 0402
3L60	3198 031 02290	22Ω 5% 0.1W 0402
3L61	3198 031 02290	22Ω 5% 0.1W 0402
3L62	3198 031 02290	22Ω 5% 0.1W 0402
3L63	3198 031 02290	22Ω 5% 0.1W 0402
3L64	3198 031 02290	22Ω 5% 0.1W 0402
3L65	3198 031 02290	22Ω 5% 0.1W 0402
3L66	3198 031 02290	22Ω 5% 0.1W 0402
3L67	3198 031 02290	22Ω 5% 0.1W 0402
3L68	3198 031 02290	22Ω 5% 0.1W 0402
3L69	3198 031 02290	22Ω 5% 0.1W 0402
3L70	3198 031 02290	22Ω 5% 0.1W 0402
3L71	3198 031 02290	22Ω 5% 0.1W 0402
3L72	4822 117 13546	47Ω 5% 0402
3L73	4822 117 13546	47Ω 5% 0402
3L74	4822 117 13546	47Ω 5% 0402
3L75	4822 117 13546	47Ω 5% 0402
3L76	4822 117 13546	47Ω 5% 0402
3L77	4822 117 13546	47Ω 5% 0402
3L81	3198 031 03390	33Ω 1% 0402
3L82	3198 031 03390	33Ω 1% 0402
3L83	3198 031 03390	33Ω 1% 0402
3L84	3198 031 03390	33Ω 1% 0402
3L85	3198 031 03390	33Ω 1% 0402
3L86	3198 031 03390	33Ω 1% 0402
3L87	3198 031 03390	33Ω 1% 0402
3L88	3198 031 03390	33Ω 1% 0402
3L89	3198 031 02290	22Ω 5% 0.1W 0402
3L90	4822 117 13548	1kΩ 5% 0402
3L91	3198 031 03390	33Ω 1% 0402
3L92	3198 031 03390	33Ω 1% 0402
3L93	3198 031 03390	33Ω 1% 0402
3L94	3198 031 03390	33Ω 1% 0402
3L95	3198 031 03390	33Ω 1% 0402
3L96	4822 117 13545	100Ω 1% 0402
3L97	4822 117 13545	100Ω 1% 0402
3L98	4822 117 11297	100kΩ 5% 0.1W
3L99	4822 117 13606	10kΩ 5% 0.01W 0402
3LA0	4822 117 13606	10kΩ 5% 0.01W 0402
3LA1	4822 117 13606	10kΩ 5% 0.01W 0402
3LA2	4822 117 13606	10kΩ 5% 0.01W 0402
3LA3	4822 117 13606	10kΩ 5% 0.01W 0402
3LA4	4822 117 13606	10kΩ 5% 0.01W 0402
3LA5	4822 117 13548	1kΩ 5% 0402
3LA6	4822 117 13606	10kΩ 5% 0.01W 0402
3LA7	4822 117 13606	10kΩ 5% 0.01W 0402
3LA9	4822 117 13606	10kΩ 5% 0.01W 0402
3LB4	4822 117 13606	10kΩ 5% 0.01W 0402
3LB5	4822 117 13606	10kΩ 5% 0.01W 0402
3LB7	4822 117 13606	10kΩ 5% 0.01W 0402
3LB8	4822 117 13606	10kΩ 5% 0.01W 0402
3LB9	4822 117 13606	10kΩ 5% 0.01W 0402
3LC0	4822 117 13606	10kΩ 5% 0.01W 0402
3LC1	4822 117 13606	10kΩ 5% 0.01W 0402
3LC2	4822 117 13606	10kΩ 5% 0.01W 0402
3LC3	4822 117 13606	10kΩ 5% 0.01W 0402
3LC4	4822 117 13606	10kΩ 5% 0.01W 0402
3LC5	4822 117 11297	100kΩ 5% 0.1W
3LC6	3198 031 04720	4.7kΩ 5% 0402
3LC7	3198 031 04720	4.7kΩ 5% 0402
3LC8	3198 031 06810	680Ω 5% 0.01W 0402
3LC9	4822 117 13606	10kΩ 5% 0.01W 0402
3LD0	4822 117 13606	10kΩ 5% 0.01W 0402
3LD1	4822 117 13606	10kΩ 5% 0.01W 0402
3LD3	4822 117 13606	10kΩ 5% 0.01W 0402
3LD4	4822 117 13606	10kΩ 5% 0.01W 0402
3LD5	4822 117 13606	10kΩ 5% 0.01W 0402
3LD6	4822 117 13606	10kΩ 5% 0.01W 0402
3LD7	4822 117 13606	10kΩ 5% 0.01W 0402
3LD8	4822 117 13606	10kΩ 5% 0.01W 0402
3LD9	4822 117 13606	10kΩ 5% 0.01W 0402
3LE0	4822 117 13606	10kΩ 5% 0.01W 0402
3LE1	4822 117 11373	100Ω 1% 0805
3LE2	4822 117 13545	100Ω 1% 0402
3LE3	3198 031 04720	4.7kΩ 5% 0402
3LE4	3198 031 04720	4.7kΩ 5% 0402
3LE5	4822 117 13606	10kΩ 5% 0.01W 0402
3LE6	4822 117 13606	10kΩ 5% 0.01W 0402
3LE7	4822 117 13606	10kΩ 5% 0.01W 0402
3LE8	4822 117 13606	10kΩ 5% 0.01W 0402
3LE9	4822 117 13606	10kΩ 5% 0.01W 0402
3LF0	4822 117 13545	100Ω 1% 0402
3LF1	4822 117 13545	100Ω 1% 0402
3LF2	4822 117 13545	100Ω 1% 0402
3LF3	4822 117 11297	100kΩ 5% 0.1W
3LF4	4822 117 13606	10kΩ 5% 0.01W 0402
3LF5	4822 117 13606	10kΩ 5% 0.01W 0402
3LF8	4822 117 13545	100Ω 1% 0402
3LF9	4822 117 13606	10kΩ 5% 0.01W 0402
3LG1	4822 117 13545	100Ω 1% 0402
3LG3	4822 117 13545	100Ω 1% 0402

3LG5	4822 117 13545	100Ω 1% 0402
3LG6	4822 117 13545	100Ω 1% 0402
3LG7	4822 117 13545	100Ω 1% 0402
3LG8	4822 117 13545	100Ω 1% 0402
3LG9	4822 117 13545	100Ω 1% 0402
3LH0	4822 117 13545	100Ω 1% 0402
3LH1	4822 117 13545	100Ω 1% 0402
3LH2	4822 117 11373	100Ω 1% 0805
3LH3	4822 117 13545	100Ω 1% 0402
3LH4	4822 117 13545	100Ω 1% 0402
3LH5	4822 117 13606	10kΩ 5% 0.01W 0402
3LH6	4822 117 13606	10kΩ 5% 0.01W 0402
3LH7	4822 117 11373	100Ω 1% 0805
3LH8	4822 117 13545	100Ω 1% 0402
3LH9	4822 117 13545	100Ω 1% 0402
3LJ0	4822 117 13545	100Ω 1% 0402
3LJ1	4822 117 13545	100Ω 1% 0402
3LJ2	4822 117 13606	10kΩ 5% 0.01W 0402
3LJ3	4822 117 13606	10kΩ 5% 0.01W 0402
3LJ4	4822 117 13545	100Ω 1% 0402
3LJ5	4822 117 13545	100Ω 1% 0402
3LJ6	4822 117 13545	100Ω 1% 0402
3LJ7	4822 117 13545	100Ω 1% 0402
3LJ8	4822 117 13545	100Ω 1% 0402
3LJ9	4822 117 13545	100Ω 1% 0402
3LK0	4822 117 13545	100Ω 1% 0402
3LK1	4822 117 13545	100Ω 1% 0402
3LK2	4822 117 13545	100Ω 1% 0402
3LK3	4822 117 13545	100Ω 1% 0402
3LK4	4822 117 13545	100Ω 1% 0402
3LK5	4822 117 13545	100Ω 1% 0402
3LK6	4822 117 13545	100Ω 1% 0402
3LK7	4822 117 13545	100Ω 1% 0402
3LK8	4822 117 13545	100Ω 1% 0402
3LL0	4822 117 13545	100Ω 1% 0402
3LL1	4822 117 13545	100Ω 1% 0402
3LL2	4822 117 13545	100Ω 1% 0402
3LL3	4822 117 13545	100Ω 1% 0402
3LL4	4822 117 13545	100Ω 1% 0402
3LL5	4822 117 13545	100Ω 1% 0402
3LL6	4822 117 13545	100Ω 1% 0402
3LL7	4822 117 13545	100Ω 1% 0402
3LL8	4822 117 13597	330Ω 5% 0.01W 0402
3LL9	4822 117 13596	220Ω 5% 0.01W 0402
3LM0	4822 117 11373	100Ω 1% 0805
3LM1	4822 117 11373	100Ω 1% 0805
3LM2	4822 117 11373	100Ω 1% 0805
3LM3	4822 117 11373	100Ω 1% 0805
3LM4	4822 117 11373	100Ω 1% 0805
3LM5	4822 117 11373	100Ω 1% 0805
3LM6	4822 117 11373	100Ω 1% 0805
3LM7	4822 117 11373	100Ω 1% 0805
3LN0	4822 117 11373	100Ω 1% 0805
3LN1	4822 117 11373	100Ω 1% 0805
3LN2	4822 117 11373	100Ω 1% 0805
3LN3	4822 117 11373	100Ω 1% 0805
3LN4	4822 117 11373	100Ω 1% 0805
3LN5	4822 117 11373	100Ω 1% 0805
3LN6	4822 117 11373	100Ω 1% 0805
3LN7	4822 117 11373	100Ω 1% 0805
3LQ6	4822 117 11373	100Ω 1% 0805
3LR0	3198 031 03390	33Ω 1% 0402
3LR1	3198 031 03390	33Ω 1% 0402
3LR2	4822 117 13606	10kΩ 5% 0.01W 0402
3LR3	2350 033 11339	4 x 33Ω 5%
3LR4	2350 033 11339	4 x 33Ω 5%
3LR5	2350 033 11339	4 x 33Ω 5%
3LR6	2350 033 11339	4 x 33Ω 5%
3LR7	2350 033 11339	4 x 33Ω 5%
3LR8	2350 033 11339	4 x 33Ω 5%
3LR9	2350 033 11339	4 x 33Ω 5%
3LS0	2350 033 11339	4 x 33Ω 5%
3LS1	2350 033 11339	4 x 33Ω 5%
3LS2	3198 031 06810	680Ω 5% 0.01W 0402
3LS3	4822 117 13606	10kΩ 5% 0.01W 0402
3LS4	4822 117 13606	10kΩ 5% 0.01W 0402
3LS5	4822 117 13606	10kΩ 5% 0.01W 0402
3LS6	4822 117 13606	10kΩ 5% 0.01W 0402
3LS7	4822 117 13597	330Ω 5% 0.01W 0402
3LS8	4822 117 13606	10kΩ 5% 0.01W 0402
3LS9	3198 031 05610	560Ω 5% 0.01W 0402
3LT0	4822 117 13606	10kΩ 5% 0.01W 0402
3LT1	4822 117 13606	10kΩ 5% 0.01W 0402
3LT2	4822 117 13606	10kΩ 5% 0.01W 0402
3LT3	3198 031 01090	10Ω 5% 0.01W 0402
3LT4	3198 031 04720	4.7kΩ 5% 0402
3LT5	2322 705 70184	180Ω 5% 0402
3LT6	3198 031 06830	68kΩ 5% 0.01W 0402
3LT7	4822 117 11297	100kΩ 5% 0.1W
3LT8	4822 117 13606	10kΩ 5% 0.01W 0402
3LT9	3198 031 01090	10Ω 5% 0.01W 0402
3LU0	4822 117 11297	100kΩ 5% 0.1W
3LU1	3198 031 06830	68kΩ 5% 0.01W 0402
3LU2	4822 117 13601	22kΩ 5% 0402
3LU3	4822 117 13606	10kΩ 5% 0.01W 0402
3LU4	4822 117 13606	10kΩ 5% 0.01W 0402
3LU5	4822 117 13601	22kΩ 5% 0402
3LU6	3198 031 06830	68kΩ 5% 0.01W 0402
3LU7	2322 705 70184	180Ω 5% 0402
3LU8	3198 031 01090	10Ω 5% 0.01W 0402
3LU9	3198 031 04730	47Ω 5% 0402
3LV0	3198 031 03340	330kΩ 5% 0402
3LV1	3198 031 06830	68kΩ 5% 0.01W 0402
3LV2	4822 117 13601	22kΩ 5% 0402
3LV3	4822 117 13606	10kΩ 5% 0.01W 0402
3LV4	4822 117 13606	10kΩ 5% 0.01W 0402
3LV5	4822 117 13601	22kΩ 5% 0402
3LV6	3198 031 06830	68kΩ 5% 0.01W 0402
3LV7	2322 705 87564	560kΩ 5% 0402
3LV8	3198 031 01090	10Ω 5% 0.01W 0402
3LW0	4822 117 13606	10kΩ 5% 0.01W 0402
3LW1	4822 117 13606	10kΩ 5% 0.01W 0402
3LW2	4822 117 11297	100kΩ 5% 0.1W
3LW3	4822 117 13601	22kΩ 5% 0402
3LW4	4822 117 13606	10kΩ 5% 0.01W 0402
3LW5	4822 117 13545	100Ω 1% 0402
3LW6	3198 031 05620	5.6kΩ 5% 0.01W 0402
3LW6	4822 117 13606	10kΩ 5% 0.01W 0402
3LW7	4822 117 13606	10kΩ 5% 0.01W 0402
3LW8	4822 117 13545	100Ω 1% 0402
3M00	4822 117 13545	100Ω 1% 0402
3M01	4822 117 13545	100Ω 1% 0402
3M02	4822 117 13545	100Ω 1% 0402
3M04	4822 117 13548	1kΩ 5% 0402
3M05	4822 117 13545	100Ω 1% 0402
3M06	4822 117 13545	100Ω 1% 0402
3M07	4822 117 13545	100Ω 1% 0402
3M08	4822 117 13545	100Ω 1% 0402
3M0D	4822 117 13548	1kΩ 5% 0402
3M0I	4822 117 13545	100Ω 1% 0402
3M0J	4822 117 13545	100Ω 1% 0402
3M0S	4822 117 13605	Jumper 0402
3M0V	4822 117 13545	100Ω 1% 0402
3M40	3198 031 08230	82kΩ 5% 0402
3M41	4822 117 13548	1kΩ 5% 0402
3M42	4822 117 13545	100Ω 1% 0402
3M43	4822 117 13545	100Ω 1% 0402
3M48	3198 031 03390	33Ω 1% 0402
3M49	3198 031 04730	47Ω 5% 0402
3M4A	4822 117 13597	330Ω 5% 0.01W 0402
3M4B	4822 117 13606	10kΩ 5% 0.01W 0402
3M4C	4822 117 13597	330Ω 5% 0.01W 0402
3M4D	3198 031 08220	8.2kΩ 5% 0.5W
3M4E	3198 031 01820	1.8kΩ 5% 0.01W 0402
3M60	4822 117 13545	100Ω 1% 0402
3M61	4822 117 13545	100Ω 1% 0402
3M62	4822 117 13545	100Ω 1% 0402
3M63	4822 117 13545	100Ω 1% 0402
3M66	3198 031 01090	10Ω 5% 0.01W 0402
3M80	4822 117 13602	2.2kΩ 5% 0.01W 0402
3M81	4822 117 13606	10kΩ 5% 0.01W 0402
3M82	3198 031 01220	1.2kΩ 5% 0.01W 0402
3M83	4822 117 13606	10kΩ 5% 0.01W 0402
3M84	4822 117 13548	1kΩ 5% 0402
3M85	4822 117 10353	150Ω 1% 0.1W
3M86	4822 117 10353	150Ω 1% 0.1W
3M87	4822 117 13548	1kΩ 5% 0402
3M88	4822 117 10353	150Ω 1% 0.1W
3M89	4822 117 10353	150Ω 1% 0.1W
3M8A	4822 117 13548	1kΩ 5% 0402
3M8B	3198 031 01520	1.2kΩ 5% 0.01W 0402
3M8C	4822 117 13548	1kΩ 5% 0402
3M8D	4822 117 10353	150Ω 1% 0.1W
3M8E	4822 117 13606	10kΩ 5% 0.01W 0402
3M8F	4822 117 13606	10kΩ 5% 0.01W 0402
3M8G	4822 117 13606	10kΩ 5% 0.01W 0402
3M8H	4822 117 13603	33kΩ 5% 0402
3M8I	3198 031 01830	18kΩ 5% 0.01W 0402
3M8J	4822 117 13548	1kΩ 5% 0402
3M8R	4822 117 10353	150Ω 1% 0.1W
3M8S	4822 117 10353	150Ω 1% 0.1W
3M8T	4822 117 10353	150Ω 1% 0.1W
3M8U	4822 051 20478	4.7Ω 5% 0.1W
3M8V	4822 051 20478	4.7Ω 5% 0.1W
3N05	3198 031 01510	150Ω 5% 0.01W 0402
3N06	3198 031 04720	4.7kΩ 5% 0402
3N07	3198 031 04720	4.7kΩ 5% 0402
3N08	5322 117 13028	12kΩ 1% 0.063W 0603
3N09	4822 117 13545	100Ω 1% 0402
3N12	3198 031 01530	15kΩ 5% 0.01W 0402
3N13	3198 031 01530	15kΩ 5% 0.01W 0402
3N14	3198 031 01530	15kΩ 5% 0.01W 0402
3N15	3198 031 01530	15kΩ 5% 0.01W 0402
3N18	3198 031 04720	4.7kΩ 5% 0402
3N19	3198 031 04720	4.7kΩ 5% 0402
3N21	4822 117 13606	10kΩ 5% 0.01W 0402
3N25	3198 031 04720	4.7kΩ 5% 0402
3N90	3198 031 04720	4.7kΩ 5% 0402
3N92	3198 031 04720	4.7kΩ 5% 0402
3O00	3198 031 01050	1MΩ 5% 0402
3O01	4822 117 13543	470Ω 5% 0402
3O02	4822 117 13545	100Ω 1% 0402
3O03	4822 117 13606	10kΩ 5% 0.01W 0402
3O04	4822 117 13548	1kΩ 5% 0402
3O05	3198 031 02710	270Ω 5% 0.1W 0402
3O06	4822 117 13596	220Ω 5% 0.01W 0402
3O07	4822 117 13606	10kΩ 5% 0.01W 0402
3O08	4822 117 13606	10kΩ 5% 0.01W 0402
3O09	4822 117 13596	220Ω 5% 0.01W 0402
3O10	3198 031 02710	270Ω 5% 0.1W 0402
3O11	2120 550 00054	VDR 90V 1mA 0402
3O12	2120 550 00054	VDR 90V 1mA 0402
3O13	2120 550 00054	VDR 90V 1mA 0402
3O14	2120 550 00054	VDR 90V 1mA 0402
3O25	4822 117 13545	100Ω 1% 0402
3O26	4822 117 13545	100Ω 1% 0402
3O27	4822 117 13545	100Ω 1% 0402
3O28	4822 117 13545	100Ω 1% 0402
3P01	3198 031 04720	4.7kΩ 5% 0402
3P02	4822 117 13545	100Ω 1% 0402
3P03	4822 117 13606	10kΩ 5% 0.01W 0402
3P04	4822 117 13548	1kΩ 5% 0402
3P05	4822 117 13606	10kΩ 5% 0.01W 0402
3P10	4822 117 13606	10kΩ 5% 0.01W 0402
3P11	4822 117 13606	10kΩ 5% 0.01W 0402
3P12	4822 117 13545	100Ω 1% 0402
3P13	4822 117 13545	100Ω 1% 0402
3P14	4822 117 13545	100Ω 1% 0402
3P15	4822 117 13606	10kΩ 5% 0.01W 0402
3P16	4822 117 13606	10kΩ 5% 0.01W 0402
3P17	4822 117 13606	10kΩ 5% 0.01W 0402
3P18	4822 117 13606	10kΩ 5% 0.01W 0402
3P19	4822 117 13606	10kΩ 5% 0.01W 0402
3P20	4822 117 13606	10kΩ 5% 0.01W 0402
3P21	4822 117 13606	10kΩ 5% 0.01W 0402
3P22	4822 117 13606	10kΩ 5% 0.01W 0402
3P23	4822 117 13606	10kΩ 5% 0.01W 0402
3P24	4822 117 13606	10kΩ 5% 0.01W 0402
3P25	4822 117 13606	10kΩ 5% 0.01W 0402
3P26	4822 117 13606	10kΩ 5% 0.01W 0402
3P27	4822 117 13606	10kΩ 5% 0.01W 0402
3P28	4822 117 13606	10kΩ 5% 0.01W 0402
3P29	4822 117 13606	10kΩ 5% 0.01W 0402
3P30	4822 117 13606	10kΩ 5% 0.01W 0402
3P31	4822 117 13606	10kΩ 5% 0.01W 0402
3P32	4822 117 13606	10kΩ 5% 0.01W 0402
3P33	4822 117 11297	100kΩ 5% 0.1W
3P35	3198 031 02290	22Ω 5% 0.1W 0402
3P40	4822 117 13596	220Ω 5% 0.01W 0402
3P43	4822 117 13606	10kΩ 5% 0.01W 0402
3P45	4822 117 13606	10kΩ 5% 0.01W 0402
3P57	4822 117 13606	10kΩ 5% 0.01W 0402
3P60	2350 033 11479	4x 47Ω 5%
3P61	2350 033 11479	4x 47Ω 5%
3P62	2350 033 11479	4x 47Ω 5%
3P63	2350 033 11479	4x 47Ω 5%
3P73	3198 031 01810	180Ω 5% 0402
3P75	3198 031 04730	47Ω 5% 0402
3P76	4822 117 13548	1kΩ 5% 0402
3P77	4822 117 13548	1kΩ 5% 0402
3P78	4822 117 13606	10kΩ 5% 0.01W 0402
3P79	3198 031 02710	270Ω 5% 0.1W 0402
3P80	4822 117 13606	10kΩ 5% 0.01W 0402
3P81	4822 117 13602	2.2kΩ 5% 0.01W 0402
3P82	4822 117 13606	10kΩ 5% 0.01W 0402
3P83	4822 117 13545	100Ω 1% 0402
3P84	4822 117 13545	100Ω 1% 0402
3P85	4822 117 13545	100Ω 1% 0402
3P86	4822 117 13545	100Ω 1% 0402
3P88	4822 117 13606	10kΩ 5% 0.01W 0402
3Q00	4822 117 13546	47Ω 5% 0402
3Q02	2350 033 11689	4x 68Ω 5% Netw.
3Q03	3198 031 04720	4.7kΩ 5% 0402
3Q04	3198 031 04720	4.7kΩ 5% 0402
3Q05	2350 033 11689	4x 68Ω 5% Netw.
3Q06	2322 705 70399	39Ω 5% 0402
3Q07	2350 033 11689	4x 68Ω 5% Netw.
3Q08	2350 033 11689	4x 68Ω 5% Netw.
3Q09	3198 031 03390	33Ω 1% 0402
3Q10	4822 117 13545	100Ω 1% 0402
3Q11	4822 117 13545	100Ω 1% 0402
3Q12	4822 117 13545	100Ω 1% 0402
3Q13	4822 117 13545	100Ω 1% 0402
3Q14	4822 117 13545	100Ω 1% 0402
3Q15	4822 117 13545	100Ω 1% 0402
3Q16	3198 031 01530	15kΩ 5% 0.01W 0402
3Q17	3198 031 01530	15kΩ 5% 0.01W 0402
3Q18	3198 031 01530	15kΩ 5% 0.01W 0402
3Q20	4822 117 13546	47Ω 5% 0402
3Q21	4822 117 13606	10kΩ 5% 0.01W 0402
3Q23	3198 031 01530	15kΩ 5% 0.01W 0402
3Q25	2350 033 11689	4x 68Ω 5% Netw.

3Q26	2350 033 11689	4x 68Ω 5% Netw.
3Q27	3198 031 04720	4.7kΩ 5% 0402
3Q28	2350 033 11689	4x 68Ω 5% Netw.
3Q33	4822 117 13546	47Ω 5% 0402
3Q34	2350 033 11689	4x 68Ω 5% Netw.
3Q35	4822 117 13546	47Ω 5% 0402
3Q37	4822 117 13546	47Ω 5% 0402
3Q38	2350 033 11689	4x 68Ω 5% Netw.
3Q39	4822 117 13546	47Ω 5% 0402
3Q41	4822 117 13546	47Ω 5% 0402
3Q43	4822 117 13546	47Ω 5% 0402
3Q45	4822 117 13546	47Ω 5% 0402
3Q47	4822 117 13546	47Ω 5% 0402
3Q49	4822 117 13546	47Ω 5% 0402
3Q51	4822 117 13546	47Ω 5% 0402
3Q53	4822 117 13546	47Ω 5% 0402
3Q55	4822 117 13546	47Ω 5% 0402
3Q57	4822 117 13546	47Ω 5% 0402
3Q59	4822 117 13546	47Ω 5% 0402
3Q61	4822 117 13546	47Ω 5% 0402
3Q63	4822 117 13546	47Ω 5% 0402
3Q66	4822 117 13546	47Ω 5% 0402
3Q67	4822 117 13546	47Ω 5% 0402
3Q68	4822 117 13546	47Ω 5% 0402
3R00	4822 117 13548	1kΩ 5% 0402
3R01	4822 117 13548	1kΩ 5% 0402
3R02	4822 117 13546	47Ω 5% 0402
3R03	4822 117 13546	47Ω 5% 0402
3R04	4822 117 13546	47Ω 5% 0402
3R05	4822 117 13546	47Ω 5% 0402
3R06	4822 117 13546	47Ω 5% 0402
3R07	4822 117 13546	47Ω 5% 0402
3R08	4822 117 13546	47Ω 5% 0402
3R09	4822 117 13546	47Ω 5% 0402
3R10	4822 117 13546	47Ω 5% 0402
3R11	4822 117 13546	47Ω 5% 0402
3R12	4822 117 13546	47Ω 5% 0402
3R13	4822 117 13546	47Ω 5% 0402
3R14	4822 117 13546	47Ω 5% 0402
3R15	4822 117 13546	47Ω 5% 0402
3R16	4822 117 13546	47Ω 5% 0402
3R17	4822 117 13546	47Ω 5% 0402
3R19	4822 117 13546	47Ω 5% 0402
3R22	4822 117 13546	47Ω 5% 0402
3R39	4822 117 13545	100Ω 1% 0402
3R41	4822 117 13596	220Ω 5% 0.01W 0402
3R42	4822 117 13545	100Ω 1% 0402
3R44	4822 117 13606	10kΩ 5% 0.01W 0402
3R46	4822 117 13606	10kΩ 5% 0.01W 0402
3R47	4822 117 13606	10kΩ 5% 0.01W 0402
3R48	3198 031 04720	4.7kΩ 5% 0402
3R58	2350 033 11229	4x 22Ω 5% Netw.
3R60	2350 033 11229	4x 22Ω 5% Netw.
3R62	2350 033 11229	4x 22Ω 5% Netw.
3R64	2350 033 11229	4x 22Ω 5% Netw.
3R66	4822 117 13545	100Ω 1% 0402
3R67	2322 706 71002	1kΩ 1% 0402
3R68	2322 706 71002	1kΩ 1% 0402
3R70	3198 031 02290	22Ω 5% 0.1W 0402
3R71	4822 117 13546	47Ω 5% 0402
3R72	4822 117 13546	47Ω 5% 0402
3R73	3198 031 02290	22Ω 5% 0.1W 0402
3R74	3198 031 02290	22Ω 5% 0.1W 0402
3R75	4822 117 13548	1kΩ 5% 0402
3R77	4822 117 13546	47Ω 5% 0402
3R78	2350 033 11229	4x 22Ω 5% Netw.
3R90	3198 031 02720	2.7kΩ 5% 0.01W 0402
3R91	2322 706 71002	1kΩ 1% 0402
3R92	4822 117 13548	1kΩ 5% 0402
3R93	3198 031 02720	2.7kΩ 5% 0.01W 0402
3R94	4822 117 13548	1kΩ 5% 0402
3R95	4822 117 13545	100Ω 1% 0402
3T04	4822 117 13545	100Ω 1% 0402
3T06	4822 117 13545	100Ω 1% 0402
3T07	4822 117 13545	100Ω 1% 0402
3T09	4822 117 13545	100Ω 1% 0402
3T16	4822 117 13545	100Ω 1% 0402
3T20	4822 117 13602	2.2kΩ 5% 0.01W 0402
3T21	3198 031 02720	2.7kΩ 5% 0.01W 0402
3T22	3198 031 03390	33Ω 1% 0402
3T23	3198 031 02710	270Ω 5% 0.1W 0402
3T24	3198 031 03390	33Ω 1% 0402
3T25	4822 117 13603	33kΩ 5% 0402
3T27	4822 117 13606	10kΩ 5% 0.01W 0402
3T28	4822 117 13602	2.2kΩ 5% 0.01W 0402
3T29	4822 117 13601	22kΩ 5% 0402
3T68	3198 031 04720	4.7kΩ 5% 0402
3T69	3198 031 04720	4.7kΩ 5% 0402
3U00	4822 117 11297	100kΩ 5% 0.1W
3U01	4822 117 13601	22kΩ 5% 0402
3U02	4822 117 13601	22kΩ 5% 0402
3U03	3198 031 04730	47Ω 5% 0402
3U04⚠	5322 117 11726	10Ω 5%
3U05	4822 117 13548	1kΩ 5% 0402
3U06	3198 031 02720	2.7kΩ 5% 0.01W 0402
3U07	2322 706 73901	390Ω 1% 0402
3U08	3198 031 04720	4.7kΩ 5% 0402
3U09	2322 706 71002	1kΩ 1% 0402
3U0A	4822 117 11297	100kΩ 5% 0.1W
3U0B	4822 117 13603	33kΩ 5% 0402
3U0C	4822 117 13603	33kΩ 5% 0402
3U0D	3198 031 04730	47Ω 5% 0402
3U0E⚠	5322 117 11726	10Ω 5%
3U0F	4822 117 13548	1kΩ 5% 0402
3U0G	3198 031 02720	2.7kΩ 5% 0.01W 0402
3U0H	2322 706 75601	560Ω 1% 0402
3U0J	2322 706 71002	1kΩ 1% 0402
3U0K	4822 117 11297	100kΩ 5% 0.1W
3U0L	4822 117 13603	33kΩ 5% 0402
3U0M	4822 117 13603	33kΩ 5% 0402
3U0N	3198 031 04730	47Ω 5% 0402
3U0P⚠	5322 117 11726	10Ω 5%
3U0Q	4822 117 13548	1kΩ 5% 0402
3U0R	3198 031 02720	2.7kΩ 5% 0.01W 0402
3U0S	2322 706 72702	2.7kΩ 1% 0402
3U0T	4822 117 13603	33kΩ 5% 0402
3U0U	2322 706 71002	1kΩ 1% 0402
3U0Z	3198 031 06820	6.8kΩ 5% 0.01W 0402
3U10	4822 117 13548	1kΩ 5% 0402
3U11	3198 031 06820	6.8kΩ 5% 0.01W 0402
3U12	4822 117 13548	1kΩ 5% 0402
3U13	3198 031 06820	6.8kΩ 5% 0.01W 0402
3U14	4822 117 13548	1kΩ 5% 0402
3U15	4822 117 13545	100Ω 1% 0402
3U17	4822 051 30109	10Ω 5% 0.062W
3U18	4822 117 13613	2.2Ω 5% 0603
3U19	4822 051 30109	10Ω 5% 0.062W
3U1A	4822 117 13613	2.2Ω 5% 0603
3U1B	4822 051 30109	10Ω 5% 0.062W
3U1C	4822 117 13613	2.2Ω 5% 0603
3U1F	4822 051 30109	10Ω 5% 0.062W
3U1G	4822 051 30109	10Ω 5% 0.062W
3U1H	4822 051 30109	10Ω 5% 0.062W
3U1I	4822 117 13606	10kΩ 5% 0.01W 0402
3U1J	4822 117 13606	10kΩ 5% 0.01W 0402
3U1K	4822 117 13606	10kΩ 5% 0.01W 0402
3U1L	4822 117 13606	10kΩ 5% 0.01W 0402
3U1M	4822 117 13545	100Ω 1% 0402
3U1N	3198 031 01090	10Ω 5% 0.01W 0402
3U1N	3198 031 03390	33Ω 1% 0402
3U1P	4822 117 13606	10kΩ 5% 0.01W 0402
3U1Q	3198 031 01510	150Ω 5% 0.01W 0402
3U1R	4822 117 13596	220Ω 5% 0.01W 0402
3U1S	4822 117 13606	10kΩ 5% 0.01W 0402
3U1U	4822 117 13596	220Ω 5% 0.01W 0402
3U1V	4822 117 13606	10kΩ 5% 0.01W 0402
3U22	2322 706 76809	68Ω 1% 0402 RC32
3U25	3198 021 34780	4.7Ω 5% 0603
3U26	3198 021 34780	4.7Ω 5% 0603
3U27	3198 021 34780	4.7Ω 5% 0603
3U2B	4822 117 13606	10kΩ 5% 0.01W 0402
3U2C	3198 031 01510	150Ω 5% 0.01W 0402
3U2D	4822 117 13545	100Ω 1% 0402
3U2E	4822 117 13545	100Ω 1% 0402
3U2F	4822 117 13545	100Ω 1% 0402
3U2G	4822 117 13548	1kΩ 5% 0402
3U2H	4822 117 13548	1kΩ 5% 0402
3U2J	4822 117 13601	22kΩ 5% 0402
3U2K	4822 117 11297	100kΩ 5% 0.1W
3U2L	4822 117 13606	10kΩ 5% 0.01W 0402
3U2M	4822 117 13543	470Ω 5% 0402
3U2N	4822 117 13601	22kΩ 5% 0402
3U2P	4822 117 13601	22kΩ 5% 0402
3U35	2322 705 70688	6.8Ω 5% 0402 RC31
3U48	4822 117 13545	100Ω 1% 0402
3U4B	4822 117 13606	10kΩ 5% 0.01W 0402
3U4C	4822 051 30339	33Ω 5% 0.062W
3U4D	4822 117 13545	100Ω 1% 0402
3U4E	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U4F	4822 117 11297	100kΩ 5% 0.1W
3V00	2350 033 11229	4x 22Ω 5% Netw.
3V01	2350 033 11229	4x 22Ω 5% Netw.
3V13	2350 033 11229	4x 22Ω 5% Netw.
3V15	2350 033 11229	4x 22Ω 5% Netw.
3V16	2350 033 11229	4x 22Ω 5% Netw.
3V17	2350 033 11229	4x 22Ω 5% Netw.
3V18	2350 033 11229	4x 22Ω 5% Netw.
3V19	2350 033 11229	4x 22Ω 5% Netw.
3V24	2322 706 75601	560Ω 1% 0402
3V25	2322 706 75601	560Ω 1% 0402
3V40	3198 031 02290	22Ω 5% 0.1W 0402
3V41	3198 031 02290	22Ω 5% 0.1W 0402
3V42	3198 031 02290	22Ω 5% 0.1W 0402
3V43	3198 031 02290	22Ω 5% 0.1W 0402
3V45	2322 706 76801	680Ω 1% 0402
3V46	2322 706 73301	330Ω 1% 0402
3V47	4822 117 13596	220Ω 5% 0.01W 0402
3V48	4822 117 13596	220Ω 5% 0.01W 0402
3V78	4822 117 13548	1kΩ 5% 0402
3W07	4822 117 13545	100Ω 1% 0402
3W09	4822 117 13545	100Ω 1% 0402
3W16	4822 117 13601	22kΩ 5% 0402
3W18	4822 117 13602	2.2kΩ 5% 0.01W 0402
3W19	3198 031 03390	33Ω 1% 0402
3W20	3198 031 03390	33Ω 1% 0402
3W21	3198 031 02720	2.7kΩ 5% 0.01W 0402
3W22	3198 031 02710	270Ω 5% 0.1W 0402
3W23	4822 117 13548	1kΩ 5% 0402
3W30	4822 117 13606	10kΩ 5% 0.01W 0402
3W31	4822 117 13606	10kΩ 5% 0.01W 0402
3W33	4822 117 13548	1kΩ 5% 0402
3W34	4822 117 11297	100kΩ 5% 0.1W
3W52	3198 031 04730	47Ω 5% 0402
3W68	3198 031 04720	4.7kΩ 5% 0402
3W69	3198 031 04720	4.7kΩ 5% 0402
3W70	3198 031 02240	220kΩ 5% 0.1W 0402
3W71	4822 117 13602	2.2kΩ 5% 0.01W 0402
3W73	4822 117 13601	22kΩ 5% 0402
3W74	4822 117 13548	1kΩ 5% 0402
3W75	4822 117 13601	22kΩ 5% 0402
3W76	3198 031 05610	560Ω 5% 0.01W 0402
3W78	4822 117 13548	1kΩ 5% 0402
3W79	4822 117 13603	33kΩ 5% 0402
3W80	4822 117 13597	330Ω 5% 0.01W 0402
3W81	4822 117 13606	10kΩ 5% 0.01W 0402
3W82	2350 033 11689	4x 68Ω 5% Netw.
3W86	2350 033 11689	4x 68Ω 5% Netw.
3W90	4822 117 13545	100Ω 1% 0402
3W91	2350 033 11689	4x 68Ω 5% Netw.
3W92	4822 117 13545	100Ω 1% 0402
3Z50	4822 117 13545	100Ω 1% 0402
3Z51	4822 117 13545	100Ω 1% 0402
9A10	4822 117 13605	Jumper 0402
9A11	4822 117 13605	Jumper 0402
9A12	4822 117 13605	Jumper 0402
9A13	4822 117 13605	Jumper 0402
9A14	4822 117 13605	Jumper 0402
9A15	4822 117 13605	Jumper 0402
9A23	4822 117 13605	Jumper 0402
9A51	4822 117 13605	Jumper 0402
9A53	4822 117 13605	Jumper 0402
9A57	4822 117 13605	Jumper 0402
9B11	4822 117 13605	Jumper 0402
9B13	4822 117 13605	Jumper 0402
9B14	4822 117 13605	Jumper 0402
9B16	4822 117 13605	Jumper 0402
9B19	4822 117 13605	Jumper 0402
9B20	4822 117 13605	Jumper 0402
9B22	4822 117 13605	Jumper 0402
9B30	3198 031 01510	150Ω 5% 0.01W 0402
9B30	4822 117 13605	Jumper 0402
9C03	4822 051 20008	Jumper 0805
9C08	4822 117 13605	Jumper 0402
9C51	4822 117 13605	Jumper 0402
9C57	4822 117 13605	Jumper 0402
9F11	4822 117 13605	Jumper 0402
9F2F	4822 117 13605	Jumper 0402
9F2G	4822 117 13605	Jumper 0402
9F2H	4822 117 13605	Jumper 0402
9F2K	4822 117 13605	Jumper 0402
9F40	4822 117 13605	Jumper 0402
9F41	4822 117 13546	47Ω 5% 0402
9F42	4822 117 13605	Jumper 0402
9F44	4822 117 13548	1kΩ 5% 0402
9F45	4822 117 13548	1kΩ 5% 0402
9F46	4822 117 13548	1kΩ 5% 0402
9F47	4822 117 13548	1kΩ 5% 0402
9F51	4822 117 13605	Jumper 0402
9H03	4822 117 13605	Jumper 0402
9H05	4822 117 13605	Jumper 0402
9H06	4822 117 13605	Jumper 0402
9H07	4822 117 13605	Jumper 0402
9H08	4822 117 13605	Jumper 0402
9H09	4822 117 13605	Jumper 0402
9H13	4822 117 13605	Jumper 0402
9H14	4822 117 13605	Jumper 0402
9H15	4822 117 13605	Jumper 0402
9H16	4822 117 13605	Jumper 0402
9H18	4822 117 13605	Jumper 0402
9H19	4822 117 13605	Jumper 0402
9H21	4822 117 13605	Jumper 0402
9H26	4822 117 13605	Jumper 0402
9H27	4822 117 13605	Jumper 0402
9H29	4822 117 13605	Jumper 0402
9H30	4822 117 13605	Jumper 0402
9H32	4822 117 13605	Jumper 0402
9H33	4822 117 13605	Jumper 0402
9H34	4822 117 13605	Jumper 0402
9H35	4822 117 13605	Jumper 0402
9H36	4822 117 13605	Jumper 0402
9I01	4822 117 13605	Jumper 0402
9I31	4822 117 13605	Jumper 0402

9I32	4822 117 13605	Jumper 0402
9I33	4822 117 13605	Jumper 0402
9I51	4822 117 13605	Jumper 0402
9I52	4822 117 13605	Jumper 0402
9I53	4822 117 13605	Jumper 0402
9J20	4822 117 13605	Jumper 0402
9J21	4822 117 13605	Jumper 0402
9J22	4822 117 13605	Jumper 0402
9J24	4822 117 13605	Jumper 0402
9K01	4822 117 13605	Jumper 0402
9L04	4822 117 13605	Jumper 0402
9L07	4822 117 13605	Jumper 0402
9L08	4822 117 13605	Jumper 0402
9L09	4822 117 13605	Jumper 0402
9L10	4822 117 13605	Jumper 0402
9LA0	4822 117 13605	Jumper 0402
9LA1	4822 117 13605	Jumper 0402
9LC7	4822 117 13605	Jumper 0402
9M00	4822 117 13605	Jumper 0402
9M01	4822 117 13605	Jumper 0402
9M02	4822 117 13605	Jumper 0402
9M03	4822 117 13605	Jumper 0402
9M04	4822 117 13605	Jumper 0402
9M05	4822 117 13605	Jumper 0402
9M0L	4822 117 13605	Jumper 0402
9M48	4822 117 13605	Jumper 0402
9M4L	4822 117 13605	Jumper 0402
9M4M	4822 117 13605	Jumper 0402
9M4N	4822 117 13605	Jumper 0402
9M4P	4822 117 13605	Jumper 0402
9M4Q	4822 117 13605	Jumper 0402
9M4R	4822 117 13605	Jumper 0402
9M4S	4822 117 13605	Jumper 0402
9M4T	4822 117 13605	Jumper 0402
9M4U	4822 117 13605	Jumper 0402
9M4V	4822 117 13605	Jumper 0402
9M4W	4822 117 13605	Jumper 0402
9M4Y	4822 117 13605	Jumper 0402
9M4Z	4822 117 13605	Jumper 0402
9M50	4822 117 13605	Jumper 0402
9M53	4822 117 13605	Jumper 0402
9M54	4822 051 20008	Jumper 0805
9M55	4822 051 20008	Jumper 0805
9M58	4822 117 13605	Jumper 0402
9M59	4822 117 13605	Jumper 0402
9M5A	4822 117 13605	Jumper 0402
9M5B	4822 117 13605	Jumper 0402
9M5C	4822 117 13605	Jumper 0402
9M5D	4822 117 13605	Jumper 0402
9M5E	4822 117 13605	Jumper 0402
9M5F	4822 117 13605	Jumper 0402
9M5G	4822 117 13605	Jumper 0402
9M82	2350 033 91001	4 x Jumper
9M83	2350 033 91001	4 x Jumper
9M86	2350 033 91001	4 x Jumper
9M89	2350 033 91001	4 x Jumper
9M8B	4822 117 13605	Jumper 0402
9M8C	4822 117 13605	Jumper 0402
9M8G	4822 051 20008	Jumper 0805
9M8H	4822 051 20008	Jumper 0805
9M8I	4822 117 13605	Jumper 0402
9M8J	4822 117 13605	Jumper 0402
9N03	4822 117 13605	Jumper 0402
9N04	4822 117 13605	Jumper 0402
9N05	4822 117 13605	Jumper 0402
9N08	4822 117 13605	Jumper 0402
9N09	4822 117 13605	Jumper 0402
9N12	4822 117 13605	Jumper 0402
9N14	4822 117 13605	Jumper 0402
9O16	4822 117 13605	Jumper 0402
9P01	4822 117 13605	Jumper 0402
9P02	4822 117 13605	Jumper 0402
9P06	4822 117 13605	Jumper 0402
9P07	4822 117 13605	Jumper 0402
9P08	4822 117 13605	Jumper 0402
9P09	4822 117 13605	Jumper 0402
9P11	4822 117 13605	Jumper 0402
9P22	4822 117 13605	Jumper 0402
9P23	4822 117 13605	Jumper 0402
9P24	4822 117 13605	Jumper 0402
9P25	4822 117 13605	Jumper 0402
9P26	4822 117 13605	Jumper 0402
9P27	4822 117 13605	Jumper 0402
9P28	4822 117 13605	Jumper 0402
9P30	4822 117 13605	Jumper 0402
9P31	4822 117 13605	Jumper 0402
9P32	4822 117 13605	Jumper 0402
9P34	4822 117 13605	Jumper 0402
9P36	4822 117 13605	Jumper 0402
9P37	4822 117 13605	Jumper 0402
9P38	4822 117 13605	Jumper 0402
9P41	4822 117 13605	Jumper 0402
9P79	4822 117 13605	Jumper 0402
9R02	4822 117 13605	Jumper 0402
9R06	4822 117 13605	Jumper 0402
9T05	4822 117 13605	Jumper 0402
9T06	4822 117 13605	Jumper 0402
9T07	4822 117 13605	Jumper 0402
9T23	4822 117 13605	Jumper 0402
9T24	4822 117 13605	Jumper 0402
9T25	4822 117 13605	Jumper 0402
9T40	4822 117 13605	Jumper 0402
9T73	4822 117 13605	Jumper 0402
9U01	4822 117 13605	Jumper 0402
9U02	4822 117 13605	Jumper 0402
9U03	4822 117 13605	Jumper 0402
9U09	4822 117 13548	1kΩ 5% 0402
9U10	4822 051 20008	Jumper 0805
9U11	4822 051 20008	Jumper 0805
9U12	4822 051 20008	Jumper 0805
9U40	4822 051 20008	Jumper 0805
9U41	4822 051 20008	Jumper 0805
9W03	4822 117 13605	Jumper 0402
9W05	4822 117 13605	Jumper 0402
9W08	4822 117 13605	Jumper 0402
9W12	4822 117 13605	Jumper 0402
9W14	4822 117 13605	Jumper 0402
9W15	4822 117 13605	Jumper 0402
9W16	4822 117 13605	Jumper 0402
9W17	4822 117 13605	Jumper 0402
9W18	4822 117 13605	Jumper 0402
9W19	4822 117 13605	Jumper 0402
9W23	4822 117 13605	Jumper 0402
9W24	4822 117 13605	Jumper 0402
9W33	4822 117 13605	Jumper 0402
9W34	4822 117 13605	Jumper 0402
9W36	4822 117 13605	Jumper 0402
9W37	4822 117 13605	Jumper 0402
9W39	4822 117 13605	Jumper 0402
9W41	4822 117 13605	Jumper 0402
9Y04	4822 117 13605	Jumper 0402
9Y05	4822 117 13605	Jumper 0402
9Y06	4822 117 13605	Jumper 0402
9Y07	4822 117 13605	Jumper 0402

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5A01	2422 549 45843	100 Mhz 0603
5A02	2422 549 45843	100 Mhz 0603
5A03	2422 549 45843	100 Mhz 0603
5A33	2422 549 45843	100 Mhz 0603
5A34	2422 549 45843	100 Mhz 0603
5A36	2422 549 45843	100 Mhz 0603
5A52	2422 549 45843	100 Mhz 0603
5A53	2422 549 45843	100 Mhz 0603
5A54	2422 549 45843	100 Mhz 0603
5A56	2422 549 45843	100 Mhz 0603
5A59	2422 549 45843	100 Mhz 0603
5B00	4822 157 11716	Bead 30Ω at 100MHz
5B01	4822 157 11716	Bead 30Ω at 100MHz
5B10	2422 549 44197	Bead 220Ω at 100MHz
5B11	2422 549 44197	Bead 220Ω at 100MHz
5B12	2422 549 44197	Bead 220Ω at 100MHz
5B17	2422 549 44197	Bead 220Ω at 100MHz
5B18	4822 157 11506	Bead 120Ω at 100MHz
5C01	2422 549 45843	100 Mhz 0603
5C03	2422 549 45843	100 Mhz 0603
5C31	4822 051 30181	180Ω 5% 0.062W
5C33	2422 549 45843	100 Mhz 0603
5C34	2422 549 45843	100 Mhz 0603
5C36	2422 549 45843	100 Mhz 0603
5C52	2422 549 45843	100 Mhz 0603
5C53	2422 549 44197	Bead 220Ω at 100MHz
5C54	2422 549 45843	100 Mhz 0603
5C55	2422 549 44197	Bead 220Ω at 100MHz
5C56	2422 549 44197	Bead 220Ω at 100MHz
5C59	2422 549 45843	100 Mhz 0603
5C70	2422 549 00195	Bead 40.4MHz
5D00	2422 549 44197	Bead 220Ω at 100MHz
5D01	2422 549 44197	Bead 220Ω at 100MHz
5D02	2422 549 44197	Bead 220Ω at 100MHz
5D03	2422 549 44197	Bead 220Ω at 100MHz
5D04	2422 549 44197	Bead 220Ω at 100MHz
5D05	2422 549 44197	Bead 220Ω at 100MHz
5D10	2422 549 44197	Bead 220Ω at 100MHz
5D11	2422 549 44197	Bead 220Ω at 100MHz
5D12	2422 549 44197	Bead 220Ω at 100MHz
5D13	2422 535 91025	22µH 10% 7A10N
5D14	2422 535 91025	22µH 10% 7A10N
5D15	2422 549 44197	Bead 220Ω at 100MHz
5D16	2422 549 44197	Bead 220Ω at 100MHz
5D17	2422 549 44197	Bead 220Ω at 100MHz
5D20	2422 549 44197	Bead 220Ω at 100MHz
5D21	2422 549 44197	Bead 220Ω at 100MHz
5D22	2422 549 44197	Bead 220Ω at 100MHz
5D23	2422 536 00137	33µH 10%
5D24	2422 536 00137	33µH 10%
5D25	2422 549 44197	Bead 220Ω at 100MHz
5D26	2422 549 44197	Bead 220Ω at 100MHz
5D27	2422 549 44197	Bead 220Ω at 100MHz
5F00	2422 549 45325	Bead 67Ω at 100MHz
5F01	2422 549 45325	Bead 67Ω at 100MHz
5F02	2422 549 45325	Bead 67Ω at 100MHz
5F03	2422 549 45325	Bead 67Ω at 100MHz
5F04	2422 549 45325	Bead 67Ω at 100MHz
5F06	2422 549 45325	Bead 67Ω at 100MHz
5F07	2422 549 45325	Bead 67Ω at 100MHz
5F08	2422 549 45325	Bead 67Ω at 100MHz
5F09	2422 549 45325	Bead 67Ω at 100MHz
5F0B	2422 549 45325	Bead 67Ω at 100MHz
5F0I	2422 549 42896	Bead 120Ω 100MHz
5F0L	2422 549 00287	Bead 220Ω 100MHz
5F0M	2422 549 00287	Bead 220Ω 100MHz
5F0N	2422 549 00287	Bead 220Ω 100MHz
5F0P	2422 549 42896	Bead 120Ω 100MHz
5F0Q	2422 549 00287	Bead 220Ω 100MHz
5F0R	2422 549 43062	Bead 600Ω at 100MHz
5F0S	2422 549 43062	Bead 600Ω at 100MHz
5F10	2422 549 00287	Bead 220Ω 100MHz
5F11	2422 549 00287	Bead 220Ω 100MHz
5F60	2422 549 42896	Bead 120Ω 100MHz
5F61	2422 549 42896	Bead 120Ω 100MHz
5F62	2422 549 42896	Bead 120Ω 100MHz
5I01	2422 549 42896	Bead 120Ω 100MHz
5I21	2422 549 42896	Bead 120Ω 100MHz
5I50	4822 157 11716	Bead 30Ω at 100MHz
5I51	4822 157 11716	Bead 30Ω at 100MHz
5J00	2422 549 42896	Bead 120Ω 100MHz
5J01	2422 549 42896	Bead 120Ω 100MHz
5J02	2422 549 42896	Bead 120Ω 100MHz
5J03	2422 549 42896	Bead 120Ω 100MHz
5J04	2422 549 42896	Bead 120Ω 100MHz
5J05	2422 549 42896	Bead 120Ω 100MHz
5J06	2422 549 42896	Bead 120Ω 100MHz
5J07	2422 549 42896	Bead 120Ω 100MHz
5J13	2422 549 44197	Bead 220Ω at 100MHz
5L50	2422 549 43769	Bead 30Ω at 100MHz
5L50	2422 549 45843	100 Mhz 0603
5L51	2422 549 44197	Bead 220Ω at 100MHz
5L52	2422 549 44197	Bead 220Ω at 100MHz
5LA1	2422 549 43769	Bead 30Ω at 100MHz
5LA2	2422 549 43062	Bead 600Ω at 100MHz
5LA3	2422 549 43769	Bead 30Ω at 100MHz
5LA3	2422 549 45843	100 Mhz 0603
5LA4	2422 549 43062	Bead 600Ω at 100MHz
5LA5	2422 549 00287	Bead 220Ω 100MHz
5LA6	2422 549 00287	Bead 220Ω 100MHz
5LA7	2422 549 00287	Bead 220Ω 100MHz
5LA8	2422 549 00287	Bead 220Ω 100MHz
5LN0	2422 549 43062	Bead 600Ω at 100MHz
5LN1	2422 549 43769	Bead 30Ω at 100MHz
5LN2	2422 549 43062	Bead 600Ω at 100MHz
5LN3	2422 549 43062	Bead 600Ω at 100MHz
5LN4	2422 549 43062	Bead 600Ω at 100MHz
5M06	2422 549 44197	Bead 220Ω at 100MHz
5M07	2422 549 44197	Bead 220Ω at 100MHz
5M08	2422 549 44197	Bead 220Ω at 100MHz
5M40	2422 549 44197	Bead 220Ω at 100MHz
5M41	2422 549 44197	Bead 220Ω at 100MHz
5M42	2422 549 44197	Bead 220Ω at 100MHz
5M43	2422 549 44197	Bead 220Ω at 100MHz
5M44	2422 549 44197	Bead 220Ω at 100MHz
5M45	2422 549 44197	Bead 220Ω at 100MHz
5M46	2422 549 44197	Bead 220Ω at 100MHz
5M47	2422 549 44197	Bead 220Ω at 100MHz
5M48	2422 549 44197	Bead 220Ω at 100MHz
5M49	2422 549 44197	Bead 220Ω at 100MHz
5M4A	2422 549 44197	Bead 220Ω at 100MHz
5M4B	2422 549 44197	Bead 220Ω at 100MHz
5M60	2422 549 43062	Bead 600Ω at 100MHz
5N00	2422 549 44197	Bead 220Ω at 100MHz
5N01	2422 549 43769	Bead 30Ω at 100MHz
5N02	2422 549 43769	Bead 30Ω at 100MHz
5O00	2422 549 44197	Bead 220Ω at 100MHz
5O01	2422 549 44197	Bead 220Ω at 100MHz
5P02	2422 549 43769	Bead 30Ω at 100MHz
5P08	2422 549 43769	Bead 30Ω at 100MHz
5Q01	2422 549 43769	Bead 30Ω at 100MHz
5Q02	2422 549 43769	Bead 30Ω at 100MHz
5Q03	2422 549 43769	Bead 30Ω at 100MHz
5Q04	2422 549 43769	Bead 30Ω at 100MHz
5Q06	3198 018 52280	2.2µH 10% 0603
5Q07	2422 549 44197	Bead 220Ω at 100MHz
5R00	2422 549 00287	Bead 220Ω 100MHz
5R01	2422 549 00287	Bead 220Ω 100MHz
5R02	2422 549 00287	Bead 220Ω 100MHz
5R03	2422 549 00287	Bead 220Ω 100MHz
5R04	2422 549 00287	Bead 220Ω 100MHz
5R05	2422 549 00287	Bead 220Ω 100MHz
5R06	2422 549 00287	Bead 220Ω 100MHz
5T01	2422 549 45843	100 Mhz 0603

5T02	2422 549 44197	Bead 220Ω at 100MHz
5T03	2422 549 44197	Bead 220Ω at 100MHz
5T05	3198 018 31080	1µH 10% 0805
5T12	2422 549 45843	100 Mhz 0603
5U00	2422 536 00671	10µH 20%
5U01	2422 536 00671	10µH 20%
5U02	2422 536 00779	10µH 20%
5U03	2422 536 00779	10µH 20%
5U04	2422 536 00779	10µH 20%
5U05	2422 549 44197	Bead 220Ω at 100MHz
5U06	2422 549 44197	Bead 220Ω at 100MHz
5U07	2422 549 44197	Bead 220Ω at 100MHz
5U08	2422 549 44197	Bead 220Ω at 100MHz
5U09	2422 549 44197	Bead 220Ω at 100MHz
5U0A	2422 549 44197	Bead 220Ω at 100MHz
5U0B	2422 549 44197	Bead 220Ω at 100MHz
5U0C	2422 549 44197	Bead 220Ω at 100MHz
5U0D	2422 536 00671	10µH 20%
5U40	2422 536 00532	220µH 20%
5V01	2422 549 44197	Bead 220Ω at 100MHz
5V02	2422 549 44197	Bead 220Ω at 100MHz
5W04	2422 549 44197	Bead 220Ω at 100MHz
5W08	4822 157 71206	Bead 600Ω 100MHz
5W12	2422 549 43769	Bead 30Ω at 100MHz
5W14	3198 018 90050	Bead 1kΩ at 100MHz
5W15	3198 018 31080	1µH 10% 0805
5W15	3198 018 33370	0.33µH 10% 0805
5Z01	4822 051 30759	75Ω 5% 0.062W
5Z50	2422 549 43769	Bead 30Ω at 100MHz

6A52	9340 552 30115	BA591
6B20	4822 130 11397	BAS316
6B21	4822 130 11397	BAS316
6B22	4822 130 11397	BAS316
6B23	4822 130 11397	BAS316
6C52	9340 552 30115	BA591
6D10	4822 130 11397	BAS316
6D11	4822 130 11152	UDZ18B
6D80	4822 130 11397	BAS316
6F01	9322 134 46685	SML-310MT
6F02	3198 020 55680	BZX384-C5V6
6F03	5322 130 34331	BAV70
6F06	5322 130 34331	BAV70
6F07	5322 130 34331	BAV70
6F08	4822 130 11397	BAS316
6F62	9322 134 46685	SML-310MT
6H00	9322 134 46685	SML-310MT
6H01	4822 130 11397	BAS316
6H03	4822 130 11397	BAS316
6I01	4822 130 11416	PDZ6.8B
6I02	4822 130 11416	PDZ6.8B
6I03	4822 130 11416	PDZ6.8B
6I04	4822 130 11416	PDZ6.8B
6I11	4822 130 11416	PDZ6.8B
6I12	4822 130 11416	PDZ6.8B
6I13	4822 130 11416	PDZ6.8B
6I14	4822 130 11416	PDZ6.8B
6I15	4822 130 11416	PDZ6.8B
6I16	4822 130 11416	PDZ6.8B
6I21	4822 130 11416	PDZ6.8B
6I22	4822 130 11416	PDZ6.8B
6I23	4822 130 11416	PDZ6.8B
6I24	4822 130 11416	PDZ6.8B
6I25	4822 130 11416	PDZ6.8B
6I26	4822 130 11416	PDZ6.8B
6I31	5322 130 34337	BAV99
6I32	4822 130 11416	PDZ6.8B
6I33	5322 130 34337	BAV99
6I34	4822 130 11416	PDZ6.8B
6I35	5322 130 34337	BAV99
6I36	4822 130 11416	PDZ6.8B
6I51	4822 130 11423	PLVA2656A
6I52	4822 130 11423	PLVA2656A
6I53	4822 130 11423	PLVA2656A
6I54	4822 130 11423	PLVA2656A
6I55	4822 130 11423	PLVA2656A
6I56	9340 553 52115	BAS321
6I57	9340 553 52115	BAS321
6I58	9340 553 52115	BAS321
6I59	9340 553 52115	BAS321
6I60	4822 130 80622	BAT54
6I80	4822 130 80622	BAT54
6I90	4822 130 11397	BAS316
6J07	4822 130 11397	BAS316
6J08	4822 130 80622	BAT54
6L00	4822 130 11397	BAS316
6L01	4822 130 11397	BAS316
6L02	4822 130 11397	BAS316
6L03	4822 130 11397	BAS316
6L04	4822 130 11397	BAS316
6M40	9340 566 10115	BAV99S
6M80	4822 130 11397	BAS316
6M81	4822 130 11397	BAS316
6O00	4822 130 11397	BAS316
6O01	4822 130 11397	BAS316
6P00	4822 130 11397	BAS316
6P10	4822 130 11397	BAS316
6P11	4822 130 11397	BAS316
6T01	9322 208 84685	BZG05C33
6U00	4822 130 11397	BAS316
6U01	4822 130 11397	BAS316
6U02	4822 130 11397	BAS316
6U07	4822 130 11397	BAS316
6U08	4822 130 11397	BAS316
6U09	4822 130 11397	BAS316
6U0B	9322 134 46685	SML-310MT
6U0C	9322 134 46685	SML-310MT
6U0D	9322 134 46685	SML-310MT
6U0E	9322 134 46685	SML-310MT
6U12	9322 165 17668	STPS2L30A
6U13	4822 130 11416	PDZ6.8B
6U40	4822 130 11397	BAS316
6U43	9340 548 69115	PDZ27B

7A00	9352 767 55557	PNX3000HL/N3
7A01	9340 425 30115	BC847BPN
7A03	9322 185 74668	LM324P
7A04	9322 187 67668	TS482IS
7A54	3198 010 42310	BC847BW
7A55	3198 010 42310	BC847BW
7B02		For SW see item 0802
7B03		For SW see item 0802
7B06	4822 209 17398	LD1117DT33
7B11	9352 798 11557	TDA9975EL/8/C2
7B12	9322 213 50685	TS431AIL
7B13	4822 130 42804	BC817-25
7B30	3198 010 42310	BC847BW
7B31	3198 010 42310	BC847BW
7C00	9352 767 55557	PNX3000HL/N3
7C01	9340 425 30115	BC847BPN
7C02	3198 010 42310	BC847BW
7C05	9322 198 11685	L78L08ACU
7C31	3198 010 42310	BC847BW
7C54	3198 010 42310	BC847BW
7C55	3198 010 42310	BC847BW
7D09	3198 010 42310	BC847BW
7D10	9322 213 35668	LM339P
7D11	9340 425 20115	BC847BS
7D12	9340 425 20115	BC847BS
7D14	3198 010 42310	BC847BW
7D15	3198 010 44350	BC807-25W
7D16	9340 425 30115	BC847BPN
7D17	9340 219 30115	BC817-25W
7D18	9322 224 40668	FET FDS4559_NL
7D19	3198 010 42310	BC847BW
7D20	3198 010 44350	BC807-25W
7D21	9340 425 30115	BC847BPN
7D22	9340 219 30115	BC817-25W
7D23	9322 224 40668	FET FDS4559_NL
7D25	9340 425 30115	BC847BPN
7D26	9340 425 30115	BC847BPN
7D30	3198 010 42320	BC857BW
7D31	3198 010 42320	BC857BW
7D33	9322 185 74668	LM324P
7D40	9322 213 18668	LM393PW
7D44	3198 010 42310	BC847BW
7D45	3198 010 44350	BC807-25W
7D46	9340 425 30115	BC847BPN
7D47	9340 219 30115	BC817-25W
7D48	9322 224 40668	FET FDS4559_NL
7D49	3198 010 42310	BC847BW
7D50	3198 010 44350	BC807-25W
7D51	9340 425 30115	BC847BPN
7D52	9340 219 30115	BC817-25W
7D53	9322 224 40668	FET FDS4559_NL
7D60	3198 010 42320	BC857BW
7D62	3198 010 42320	BC857BW
7F01	9322 215 24668	LD1117DT12
7F02	9340 425 20115	BC847BS
7F05	9322 204 10685	SI3441BDV
7F06	3198 010 42310	BC847BW
7F08	9340 425 30115	BC847BPN
7F09	9340 425 20115	BC847BS
7F12	3198 010 42310	BC847BW
7F13	9322 206 45668	M25P05-AVMN6P
7F14	9322 213 42685	LD3985M25
7F16	9322 230 98671	PACIFIC3-N3(O)
7F17	9322 144 97668	LD1117DT
7F20	9352 711 46118	P87LPC760BDH
7F60	9322 220 39668	XCF02SVOG20C
7F62	3198 010 42310	BC847BW
7F64	3198 010 44310	PDTC114EU
7F65	9322 230 41668	XC3S250E-4FTG256C
7I03	9351 875 80118	74HCU04PW
7I21	9340 425 20115	BC847BS
7I50	9322 215 17668	M24C01-WMN6P
7I60	3198 010 44350	BC807-25W
7I61	9340 425 30115	BC847BPN
7I62	9340 219 30115	BC817-25W
7I80	9340 425 30115	BC847BPN
7I81	3198 010 44350	BC807-25W
7I82	9340 219 30115	BC817-25W
7I83	3198 010 42320	BC857BW
7I84	9340 425 30115	BC847BPN
7J00	9352 806 64557	PNX2015E/M1E02
7J00	9352 815 51557	PNX2015E/M2B02
7J01	9340 425 30115	BC847BPN
7J02	9340 425 30115	BC847BPN
7J08	9322 211 75685	SN74LVC1G126DCK
7L50	9322 204 09671	K4D261638F-LC40
7L50	9322 228 07671	K4D261638I-LC50
7L51	3198 010 42320	BC857BW
7L52	9322 206 22668	M24C64-WDW6P
7LA1	9322 204 63685	NCP303LSN10
7LA2	9340 425 30115	BC847BPN
7LA3	9340 425 30115	BC847BPN
7LA7		For SW see item 0802
7LB0	9322 204 63685	NCP303LSN10
7LB1	9322 204 63685	NCP303LSN10
7LB2	9322 204 63685	NCP303LSN10
7LB3	9322 204 63685	NCP303LSN10
7LB4	9322 204 63685	NCP303LSN10
7LB5	5322 130 60159	BC846B
7LB6	3198 010 44310	PDTC114EU
7LB7	3198 010 44310	PDTC114EU
7LB8	9340 560 35235	BSH112
7LB9	9340 560 35235	BSH112
7M40	9340 425 30115	BC847BPN
7M41	5322 130 60159	BC846B
7M80	9322 204 63685	NCP303LSN10
7M81	3198 010 44310	PDTC114EU
7M82	9322 213 50685	TS431AIL
7M83	5322 130 60159	BC846B
7M84	9322 213 50685	TS431AIL
7M85	5322 130 60159	BC846B
7M86	5322 130 60159	BC846B
7M87	5322 130 60159	BC846B
7M88	5322 130 60159	BC846B
7M8B	5322 130 60159	BC846B
7N00	9352 698 49518	ISP1561BM
7O00	9322 191 29671	DP83816AVNG
7P00	9322 173 43668	TPS2211AIDB
7P03	9322 160 60668	STV0701
7P15	9351 750 00118	74HC4066PW
7P16	3198 010 44310	PDTC114EU
7P17	3198 010 44310	PDTC114EU
7P20	3198 010 44310	PDTC114EU
7P21	3198 010 44310	PDTC114EU
7P22	3198 010 44310	PDTC114EU
7P23	3198 010 44310	PDTC114EU
7P31	9352 190 20118	74LVC573APW
7P32	9352 190 20118	74LVC573APW
7P34	9352 115 40118	74LVC245APW
7P76	9352 115 40118	74LVC245APW
7P77	9352 115 40118	74LVC245APW
7P80		For SW see item 0802
7P81	9352 115 40118	74LVC245APW
7R00	9322 223 87671	T6TE0TBG-0001
7R01	9322 214 25671	IC K4H561638F-UCB3
7R04	3198 010 42310	BC847BW
7R10	9322 213 50685	TS431AIL
7R11	9340 575 87118	PHD38N02LT
7R12	9340 425 30115	BC847BPN
7T01	9322 104 47668	L78M05CDT
7T02	9322 104 47668	L78M05CDT
7T10	3198 010 42310	BC847BW
7T11	5322 130 42718	BFS20
7U01	9322 160 70668	SI4936ADY
7U02	9322 160 70668	SI4936ADY
7U03	9322 160 70668	SI4936ADY
7U04	9322 182 77668	L6910
7U05	9322 182 77668	L6910
7U06	9322 182 77668	L6910
7U08	9340 425 20115	BC847BS
7U09	9340 425 20115	BC847BS
7U10	9340 425 20115	BC847BS
7U20	9340 425 30115	BC847BPN
7U21	9340 425 10115	BC857BS
7U23	3198 010 42310	BC847BW
7U40	9340 560 35235	BSH112
7U41	3198 010 42310	BC847BW
7V00	9352 800 63557	PNX8550EH/M2/S1
7V01	9322 225 58671	K4H511638C-UCCC
7V02	9322 225 58671	K4H511638C-UCCC
7V10	3198 010 44310	PDTC114EU
7W10	3198 010 42310	BC847BW

7W11	5322 130 42718	BFS20
7W13	9352 684 56115	74LVC1G04GW
7W14	9322 217 28668	LD1117DT18
7W17	9352 732 45557	TDA10046AHT/C1
7W18	9340 425 30115	BC847BPN
7W19	9340 425 30115	BC847BPN
7Z11	9352 115 40118	74LVC245APW
7Z12	9352 115 40118	74LVC245APW

Externals [BE]

Various

1E50	2422 025 17601	Connector 40p f
1I01▲	2422 025 19472	Sock. SCART 21p f Bk
1I02▲	2422 025 19472	Sock. SCART 21p f Bk

⊣⊢

2O01	2020 552 94427	100pF 5% 50V
2O02	4822 126 13879	220nF +80-20% 16V
2O03	2238 586 59812	100nF 20% 50V 0603
2O06	2020 552 94427	100pF 5% 50V
2O07	2020 004 90283	10µF 20% 10V 1206
2O08	2020 004 90283	10µF 20% 10V 1206
2O09	2238 586 59812	100nF 20% 50V 0603
2O10	2020 552 94427	100pF 5% 50V
2O11	2020 004 90283	10µF 20% 10V 1206
2O12	2238 586 59812	100nF 20% 50V 0603
2O14	2238 586 59812	100nF 20% 50V 0603
2O15	2238 586 59812	100nF 20% 50V 0603
2O16	2020 552 94427	100pF 5% 50V
2O17	2238 586 59812	100nF 20% 50V 0603
2O18	4822 126 14241	330pF 0603 50V
2O23	2238 586 59812	100nF 20% 50V 0603
2O24	4822 124 12095	100µF 20% 16V
2O25	4822 126 14585	100nF 10% 0805 50V
2O26	2022 552 05679	1µF 10% 16V 0805
2O29	2020 552 94427	100pF 5% 50V
2O30	2020 552 94427	100pF 5% 50V
2O31	2020 552 94427	100pF 5% 50V
2O32	2020 552 94427	100pF 5% 50V
2O33	4822 126 14241	330pF 0603 50V
2O35	2238 586 59812	100nF 20% 50V 0603
2O36	2238 586 59812	100nF 20% 50V 0603
2O37	2238 586 59812	100nF 20% 50V 0603
2O38	2238 586 59812	100nF 20% 50V 0603
2O39	2020 004 90283	10µF 20% 10V 1206
2O40	4822 124 23002	10µF 16V
2O42	4822 124 23002	10µF 16V
2O44	4822 124 23002	10µF 16V
2O46	4822 124 23002	10µF 16V
2O52	4822 124 12313	22µF 10V 20%
2O53	2238 586 59812	100nF 20% 50V 0603
2O54	2238 586 59812	100nF 20% 50V 0603
2O55	2020 004 90283	10µF 20% 10V 1206
2O56	2238 586 59812	100nF 20% 50V 0603
2O57	2020 004 90283	10µF 20% 10V 1206
2O58	2238 586 59812	100nF 20% 50V 0603
2O59	2020 004 90283	10µF 20% 10V 1206

⊣WW⊢

3999	4822 051 30101	100Ω 5% 0.062W
3I01	4822 051 30101	100Ω 5% 0.062W
3I02	4822 051 30102	1kΩ 5% 0.062W
3I03	4822 051 30223	22kΩ 5% 0.062W
3I04	4822 051 30102	1kΩ 5% 0.062W
3I05	4822 051 30102	1kΩ 5% 0.062W
3I06	4822 051 30223	22kΩ 5% 0.062W
3I07	4822 051 30102	1kΩ 5% 0.062W
3I08	4822 051 30109	10Ω 5% 0.062W
3I09	4822 051 30109	10Ω 5% 0.062W
3I10	4822 051 30109	10Ω 5% 0.062W
3O01	4822 051 30101	100Ω 5% 0.062W
3O02	4822 051 30561	560Ω 5% 0.062W
3O03	4822 051 30391	390Ω 5% 0.062W
3O04	4822 051 30223	22kΩ 5% 0.062W
3O05	4822 051 30223	22kΩ 5% 0.062W
3O06	4822 051 30689	68Ω 5% 0.063W 0603
3O07	4822 051 30101	100Ω 5% 0.062W
3O08	4822 051 30472	4.7Ω 5% 0.062W
3O09	4822 051 30223	22kΩ 5% 0.062W
3O10	4822 051 30223	22kΩ 5% 0.062W
3O11	4822 051 30101	100Ω 5% 0.062W
3O12	4822 117 13632	100kΩ 1% 0603 0.62W
3O13	4822 117 12925	47kΩ 1% 0.063W 0603
3O14	4822 051 30101	100Ω 5% 0.062W
3O15	4822 051 30101	100Ω 5% 0.062W
3O16	3198 021 38220	8.2kΩ 5% 0.062W 0603
3O17	4822 051 30332	3.3Ω 5% 0.062W
3O18	4822 117 13632	100kΩ 1% 0603 0.62W
3O19	4822 051 30101	100Ω 5% 0.062W
3O20	4822 117 12925	47kΩ 1% 0.063W 0603
3O21	4822 117 13632	100kΩ 1% 0603 0.62W
3O22	4822 117 13632	100kΩ 1% 0603 0.62W
3O23	4822 051 30102	1kΩ 5% 0.062W
3O24	4822 117 13632	100kΩ 1% 0603 0.62W
3O25	4822 051 30223	22kΩ 5% 0.062W
3O26	4822 051 30101	100Ω 5% 0.062W
3O27	4822 117 13632	100kΩ 1% 0603 0.62W
3O28	4822 051 30759	75Ω 5% 0.062W
3O29	4822 051 30223	22kΩ 5% 0.062W
3O30	4822 117 13632	100kΩ 1% 0603 0.62W
3O31	3198 021 38220	8.2kΩ 5% 0.062W 0603
3O32	4822 051 30332	3.3Ω 5% 0.062W
3O33	4822 051 30223	22kΩ 5% 0.062W
3O34	4822 117 13632	100kΩ 1% 0603 0.62W
3O35	4822 051 30101	100Ω 5% 0.062W
3O36	4822 051 30101	100Ω 5% 0.062W
3O37	4822 051 30681	680Ω 5% 0.062W
3O38	4822 051 30759	75Ω 5% 0.062W
3O40	4822 051 30101	100Ω 5% 0.062W
3O41	4822 051 30101	100Ω 5% 0.062W
3O42	4822 051 30101	100Ω 5% 0.062W
3O43	4822 051 30759	75Ω 5% 0.062W
3O44	4822 051 30101	100Ω 5% 0.062W
3O45	4822 051 30689	68Ω 5% 0.063W 0603
3O46	4822 051 30101	100Ω 5% 0.062W
3O47	4822 051 30101	100Ω 5% 0.062W
3O48	4822 051 30102	1kΩ 5% 0.062W
3O49▲	4822 117 11151	1Ω 5%
3O51	4822 051 30759	75Ω 5% 0.062W
3O52	4822 051 30689	68Ω 5% 0.063W 0603
3O54	4822 051 30759	75Ω 5% 0.062W
3O55	4822 051 30759	75Ω 5% 0.062W
3O57	4822 051 30101	100Ω 5% 0.062W
3O59	4822 051 30759	75Ω 5% 0.062W
3O60	4822 051 30102	1kΩ 5% 0.062W
3O61	4822 051 30759	75Ω 5% 0.062W
3O62	4822 051 30759	75Ω 5% 0.062W
3O63	4822 051 30101	100Ω 5% 0.062W
3O64	4822 051 30101	100Ω 5% 0.062W
3O65	4822 051 30223	22kΩ 5% 0.062W
3O66	4822 051 30101	100Ω 5% 0.062W
3O67	4822 051 30101	100Ω 5% 0.062W
3O68	4822 051 30101	100Ω 5% 0.062W
3O70	4822 051 30101	100Ω 5% 0.062W
3O72	4822 051 30101	100Ω 5% 0.062W
3O74	4822 051 30101	100Ω 5% 0.062W
3O75	4822 051 30102	1kΩ 5% 0.062W
3O76	4822 051 30101	100Ω 5% 0.062W
3O77	4822 051 30102	1kΩ 5% 0.062W
3O78	4822 051 30101	100Ω 5% 0.062W
3O79	4822 051 30102	1kΩ 5% 0.062W
3O80	4822 051 30102	1kΩ 5% 0.062W
3O81	4822 051 30102	1kΩ 5% 0.062W
3O82	4822 051 30151	150Ω 5% 0.062W
3O83	4822 051 30102	1kΩ 5% 0.062W
3O91	4822 051 30151	150Ω 5% 0.062W
3O93	4822 051 30102	1kΩ 5% 0.062W
3O95	4822 051 30151	150Ω 5% 0.062W
3O97	4822 051 30151	150Ω 5% 0.062W

⌐~⌐

5O00	4822 157 11716	Bead 30Ω at 100MHz

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6O01	4822 130 11416	PDZ6.8B
6O02	9322 129 41685	BZM55-C12
6O03	4822 130 11416	PDZ6.8B
6O04	4822 130 11416	PDZ6.8B
6O05	4822 130 11397	BAS316
6O06	4822 130 11397	BAS316
6O07	4822 130 11416	PDZ6.8B
6O08	4822 130 11416	PDZ6.8B
6O09	4822 130 11416	PDZ6.8B
6O10	4822 130 11416	PDZ6.8B
6O11	4822 130 11416	PDZ6.8B
6O12	4822 130 11416	PDZ6.8B
6O13	4822 130 11416	PDZ6.8B
6O14	4822 130 11416	PDZ6.8B
6O15	4822 130 11416	PDZ6.8B
6O16	4822 130 11416	PDZ6.8B
6O17	4822 130 11416	PDZ6.8B
6O18	4822 130 11397	BAS316
6O19	4822 130 11416	PDZ6.8B
6O20	4822 130 11416	PDZ6.8B
6O21	4822 130 11416	PDZ6.8B
6O22	9322 129 41685	BZM55-C12
6O24	4822 130 11416	PDZ6.8B
6O25	4822 130 11416	PDZ6.8B
6O27	4822 130 11416	PDZ6.8B
6O29	4822 130 11416	PDZ6.8B
6O30	4822 130 11416	PDZ6.8B
6O31	4822 130 11416	PDZ6.8B
6O32	4822 130 11416	PDZ6.8B
6O33	4822 130 11416	PDZ6.8B
6O34	4822 130 11416	PDZ6.8B
6O35	4822 130 11416	PDZ6.8B
6O36	4822 130 11416	PDZ6.8B
6O37	4822 130 11416	PDZ6.8B
6O38	9322 102 64685	UDZ2.7B

7O00	9351 869 40118	74HC4053PW
7O01	3198 010 42310	BC847BW
7O02	3198 010 42310	BC847BW
7O03	3198 010 42310	BC847BW
7O04	3198 010 42310	BC847BW
7O05	3198 010 42310	BC847BW
7O06	3198 010 42310	BC847BW
7O07	3198 010 42310	BC847BW
7O08	3198 010 42310	BC847BW
7O09	3198 010 42310	BC847BW
7O10	9351 869 40118	74HC4053PW
7O11	3198 010 42310	BC847BW
7O12	3198 010 42310	BC847BW
7O13	3198 010 42310	BC847BW
7O15	3198 010 42310	BC847BW
7O21	9340 425 20115	BC847BS
7O24	3198 010 42310	BC847BW
7O25	3198 010 42310	BC847BW

Side I/O [D]

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	2422 026 05807	Sckt Cinch 3p f YeWhRd
1010	4822 267 31014	Sckt headphone
1301	4822 267 10484	YKF51-5359
1302	2422 026 05808	Cinch 3p f Ye
1303	2422 026 05059	Connector Phone
1304	2422 025 10655	Connector 11p m
1308	2422 025 18984	Sock. USB 4p f 2/2.5
1309	2422 025 09406	Connector 4p m
1310	2422 025 10768	Connector 3p m
1M36	2422 025 10655	Connector 11p m

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2301	4822 126 11785	47pF 5% 50V 0603
2302	4822 126 11785	47pF 5% 50V 0603
2303	4822 122 33761	22pF 5% 50V
2304	4822 126 11785	47pF 5% 50V 0603
2305	2020 552 94427	100pF 5% 50V
2306	2020 552 94427	100pF 5% 50V
2307	2238 916 15641	22nF 10% 25V 0603
2308	2238 916 15641	22nF 10% 25V 0603
2309	5322 126 11583	10nF 10% 50V 0603
2310	5322 126 11583	10nF 10% 50V 0603
2311	4822 122 33761	22pF 5% 50V
2312	2020 004 90297	100µF 20% 16V
2903	2020 552 94427	100pF 5% 50V
2904	2020 552 94427	100pF 5% 50V
2905	2238 916 15641	22nF 10% 25V 0603
2906	2238 916 15641	22nF 10% 25V 0603
2907	4822 126 14249	560pF 10% 50V 0603
2908	4822 126 14249	560pF 10% 50V 0603

⊣WW⊢

3301	4822 051 30759	75Ω 5% 0.062W
3302	4822 051 30759	75Ω 5% 0.062W
3303	4822 051 30109	10Ω 5% 0.062W
3304	4822 051 30101	100Ω 5% 0.062W
3305	4822 051 30109	10Ω 5% 0.062W
3306	4822 051 30101	100Ω 5% 0.062W
3307	4822 051 30101	100Ω 5% 0.062W
3308	4822 051 30101	100Ω 5% 0.062W
3309	4822 117 13632	100kΩ 1% 0603 0.62W
3310	4822 051 30101	100Ω 5% 0.062W
3311	4822 117 13632	100kΩ 1% 0603 0.62W
3312	4822 051 30103	10kΩ 5% 0.062W
3313	4822 051 30103	10kΩ 5% 0.062W
3902	4822 051 30759	75Ω 5% 0.062W
3904	4822 051 30759	75Ω 5% 0.062W
3905	4822 051 30222	2.2kΩ 5% 0.062W
3906	4822 051 30102	1kΩ 5% 0.062W

3907	4822 051 30333	33kΩ 5% 0.062W
3908	4822 051 30102	1kΩ 5% 0.062W
3909	4822 051 30333	33kΩ 5% 0.062W
3910	4822 051 30392	3.9Ω 5% 0.063W 0603
3911	4822 051 30103	10kΩ 5% 0.062W
3912	4822 051 30103	10kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W

5300	2422 549 44197	Bead 220Ω at 100MHz
5301	4822 051 20008	Jumper 0805
5302	4822 051 20008	Jumper 0805

6301	9322 146 61685	DF3A6.8FU
6302	9322 146 61685	DF3A6.8FU
6303	9322 146 61685	DF3A6.8FU
6304	9322 146 61685	DF3A6.8FU
6305	9322 146 61685	DF3A6.8FU
6306	9322 146 61685	DF3A6.8FU
6307	9322 146 61685	DF3A6.8FU
6900	4822 130 11416	PDZ6.8B
6901	4822 130 11416	PDZ6.8B
6902	4822 130 11416	PDZ6.8B
6903	4822 130 11416	PDZ6.8B
6904	4822 130 11416	PDZ6.8B
6905	4822 130 11416	PDZ6.8B
6906	4822 130 11416	PDZ6.8B
6907	4822 130 11416	PDZ6.8B
6908	4822 130 11416	PDZ6.8B
6909	4822 130 11416	PDZ6.8B
6910	4822 130 11416	PDZ6.8B
6911	4822 130 11416	PDZ6.8B

Control Panel [E]

Various

1309	4822 276 13775	Switch 1p 0.1A 12V
1310	4822 276 13775	Switch 1p 0.1A 12V
1311	4822 276 13775	Switch 1p 0.1A 12V
1312	4822 276 13775	Switch 1p 0.1A 12V
1313	4822 276 13775	Switch 1p 0.1A 12V
1314	4822 276 13775	Switch 1p 0.1A 12V
1684	4822 267 10459	Connector 3p
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1706	4822 276 13775	Switch 1p 0.1A 12V
1M01	4822 267 10459	Connector 3p
8101	3104 311 06551	Cable 3p/1300/3p

3002	4822 051 30151	150Ω 5% 0.062W
3003	4822 051 30391	390Ω 5% 0.062W
3004	4822 051 30561	560Ω 5% 0.062W
3005	3198 021 31820	1.8kΩ 5% 0.062W 0603
3006	4822 117 12968	820Ω 5% 0.62W
3318	4822 051 30621	620R00 5% 0,062W
3319	2322 702 60112	1.1kΩ 5% 0603
3320	2322 702 60201	200Ω 5% 0603
3321	4822 051 30391	390Ω 5% 0.062W
3324	2322 702 60202	2kΩ 5% 0603
3999	4822 117 12968	820Ω 5% 0.62W

6306	4822 130 11416	PDZ6.8B

IR/LED [J]

Various

1040	9322 223 97668	TSOP36236 IR
1870	4822 265 31067	Connector 7p m
1M21	2422 025 18753	Connector 6p m

2040	4822 124 12095	100µF 20% 16V
2070	4822 124 12095	100µF 20% 16V
2801	2020 552 96637	10µF 10% 6.3V 0805
2802	2020 552 96637	10µF 10% 6.3V 0805

3040	4822 117 13597	330Ω 5% 0.01W 0402
3041	4822 117 13606	10kΩ 5% 0.01W 0402
3042	3198 031 06820	6.8kΩ 5% 0.01W 0402
3051	4822 117 13597	330Ω 5% 0.01W 0402
3053	4822 117 13606	10kΩ 5% 0.01W 0402
3055	4822 117 13606	10kΩ 5% 0.01W 0402
3058	4822 117 13606	10kΩ 5% 0.01W 0402
3059	4822 117 13606	10kΩ 5% 0.01W 0402
3061	4822 117 13597	330Ω 5% 0.01W 0402
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3065	4822 117 13606	10kΩ 5% 0.01W 0402
3068	4822 117 13606	10kΩ 5% 0.01W 0402
3069	4822 117 13606	10kΩ 5% 0.01W 0402
3071	4822 117 13603	33kΩ 5% 0402
3072	4822 117 13606	10kΩ 5% 0.01W 0402
3074	4822 117 13606	10kΩ 5% 0.01W 0402
3077	4822 117 13606	10kΩ 5% 0.01W 0402
3079	2322 705 70475	4.7MΩ 5% 0402
3802	4822 051 30151	150Ω 5% 0.062W
3803	4822 051 30221	220Ω 5% 0.062W
3804	4822 051 30151	150Ω 5% 0.062W
3805	3198 021 31080	1Ω 5% 0603
3809	3198 021 32250	2.2MΩ 5% 0603
3810	3198 021 32250	2.2MΩ 5% 0603
3999	4822 117 13606	10kΩ 5% 0.01W 0402
9120	4822 117 13605	Jumper 0402
9121	4822 117 13605	Jumper 0402

6051	4822 130 83915	TLMV3100
6801	9322 192 35676	SPR-325MVW
6809	4822 130 11564	UDZ3.9B

7051	3198 010 42310	BC847BW
7052	4822 130 60373	BC856B
7061	3198 010 42310	BC847BW
7062	4822 130 60373	BC856B
7070	9322 218 83685	TEMT6000
7071	3198 010 42310	BC847BW
7802	9322 207 16667	TSOP34836LL1B
7803	5322 130 60159	BC846B
7805	5322 130 60159	BC846B

Standby Audio Supply [SA]

Various

1305	4822 267 10735	Connector 3p
1306▲	2422 025 16374	Connector 2p m
1318	2422 025 08149	Connector 6p m
1M03	2422 025 10771	Connector 10p m
1M46	2422 025 10655	Connector 11p m
1M63	2422 025 09405	Connector 2p m
1M64	2422 025 10769	Connector 9p m

2102	4822 124 81151	22µF 50V
2103	2238 916 15641	22nF 10% 25V 0603
2109	3198 017 34730	47nF 16V 0603
2129	5322 126 11578	1nF 10% 50V 0603
2131	2238 586 15641	22nF 10% 50V 0603
2132	4822 124 40207	100µF 20% 25V
2140	4822 124 40248	10µF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2145	4822 126 14583	470nF 10% 16V 0805
2152	4822 121 70162	10nF 5% 400V
2154	3198 017 31530	15nF 20% 50V 0603
2160	4822 124 21913	1µF 20% 63V
2163	4822 124 81151	22µF 50V
2506▲	2022 554 04155	470pF 20% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22µF 100V
2510	2020 021 91668	2200µF 20% 10V
2511	4822 124 12379	220µF 25V
2513	2222 930 56627	2.2nF 10% 200V 0805
2533	4822 124 40207	100µF 20% 25V
2534	2022 552 05679	1µF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2538	2020 552 96683	220nF 10% 50V
2539	2022 552 05679	1µF 10% 16V 0805

3104	3198 039 22090	22Ω 1%
3106	4822 051 30333	33kΩ 5% 0.062W
3108	2322 193 14477	0.47Ω 5%
3110	4822 117 12864	82kΩ 5% 0.6W
3112	4822 051 30102	1kΩ 5% 0.062W
3113	5322 117 13053	6.8kΩ 1% 0.063W 0603
3122	4822 051 30471	47Ω 5% 0.062W
3123	5322 117 13053	6.8kΩ 1% 0.063W 0603
3124	3198 021 32290	22Ω 5% 0603
3125	4822 051 30471	47Ω 5% 0.062W
3126	4822 117 13632	100kΩ 1% 0603 0.62W
3127	4822 117 13613	2.2Ω 5% 0603
3128	4822 051 30153	15kΩ 5% 0.062W
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3135	4822 051 30331	330Ω 5% 0.062W
3140	4822 117 12925	47kΩ 1% 0.063W 0603
3141	4822 051 30471	47Ω 5% 0.062W
3146	4822 051 30472	4.7Ω 5% 0.062W
3148	4822 051 30333	33kΩ 5% 0.062W
3149	4822 051 30474	470kΩ 5% 0.062W
3152	4822 051 30471	47Ω 5% 0.062W
3153	4822 117 12925	47kΩ 1% 0.063W 0603
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30123	12kΩ 5% 0.1W
3161	4822 051 30123	12kΩ 5% 0.1W
3171	4822 051 30101	100Ω 5% 0.062W
3172	4822 051 30333	33kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3511	4822 051 30683	68kΩ 5% 0.062W
3512	4822 051 30471	47Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30223	22kΩ 5% 0.062W
3534	4822 051 30102	1kΩ 5% 0.062W
3535	4822 051 30102	1kΩ 5% 0.062W
3536	4822 051 30102	1kΩ 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3539	4822 051 30221	220Ω 5% 0.062W
3543	4822 051 30223	22kΩ 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	3198 021 34780	4.7Ω 5% 0603
3999	4822 051 30682	6.8Ω 5% 0.062W

5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	2422 549 43769	Bead 30Ω at 100MHz
5106	4822 157 50961	22µH
5107	2422 549 42896	Bead 120Ω 100MHz
5110	4822 157 71736	10µH 5%
5500▲	2422 531 00076	BS25412-01 B
5504	2422 536 00776	33µH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15µH 10%
5508▲	4822 157 11832	400UH 3A

6101	9322 099 61685	BYG10J
6102	4822 130 11397	BAS316
6103	5322 130 31938	BYV27-200
6105	4822 130 11522	UDZ15B
6107	4822 130 11572	STPS8H100F
6115	4822 130 11522	UDZ15B
6130	9322 129 41685	BZM55-C12
6132	4822 130 11416	PDZ6.8B
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6140	4822 130 83755	BYW36
6144	4822 130 11397	BAS316
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6504	9322 203 12673	BYV27-600
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6534	9340 548 47115	PDZ3.3B
6562	9340 548 67115	PDZ22B

7100	9352 700 18518	TEA1533AT/N1
7101	9340 219 30115	BC817-25W

7102	9322 206 17687	FET STP4NK80ZFP
7131	9340 557 69127	PHX9NQ20T
7140	3198 010 42310	BC847BW
7501⚠	9322 149 04682	TCET1102
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7511	9322 192 16685	TS2431AI
7531	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7534	3198 010 42320	BC857BW
7560	9340 219 30115	BC817-25W

11. Revision List

Manual xxxx xxx xxxx.0

- First release.